

SUPPLEMENTARY INFORMATION

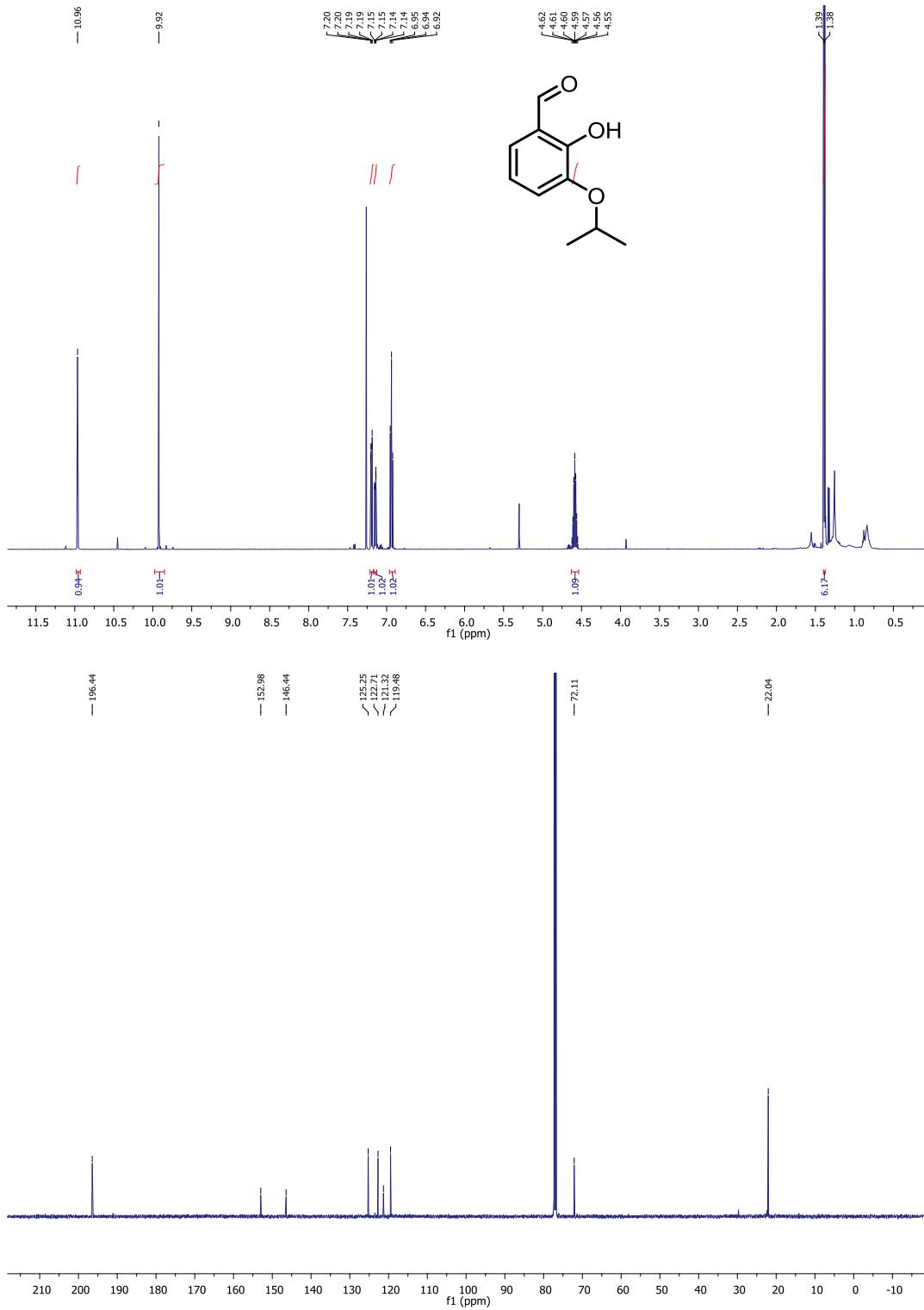
Structural optimization and
photopharmacological studies of the
cystobactamids class of natural products

Der Naturwissenschaftlichen Fakultät der
Gottfried Wilhelm Leibniz Universität Hannover

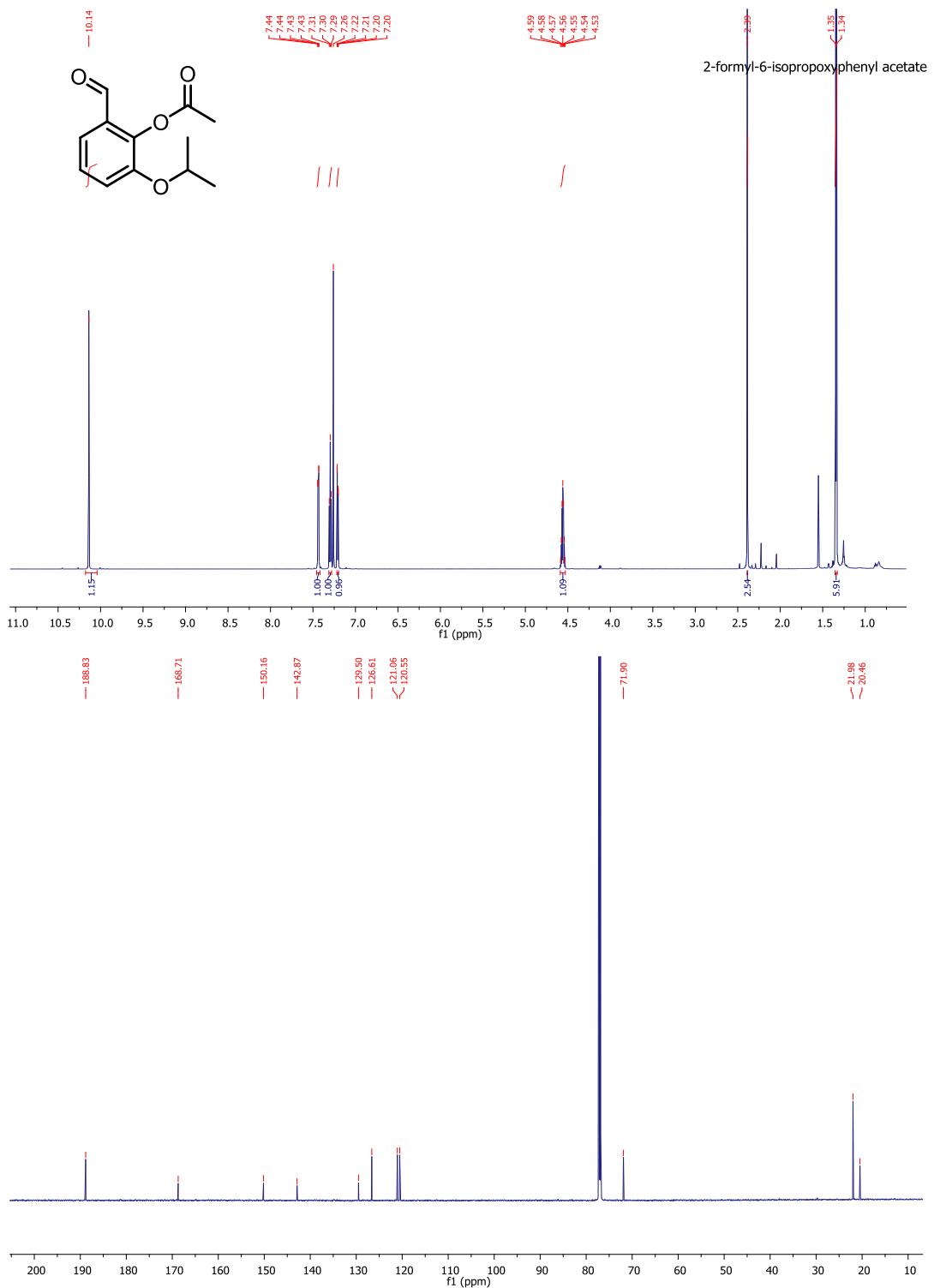
Teil der vorgelegten Dissertation
von
Giambattista Testolin, M. Sc.

NMR spectra:

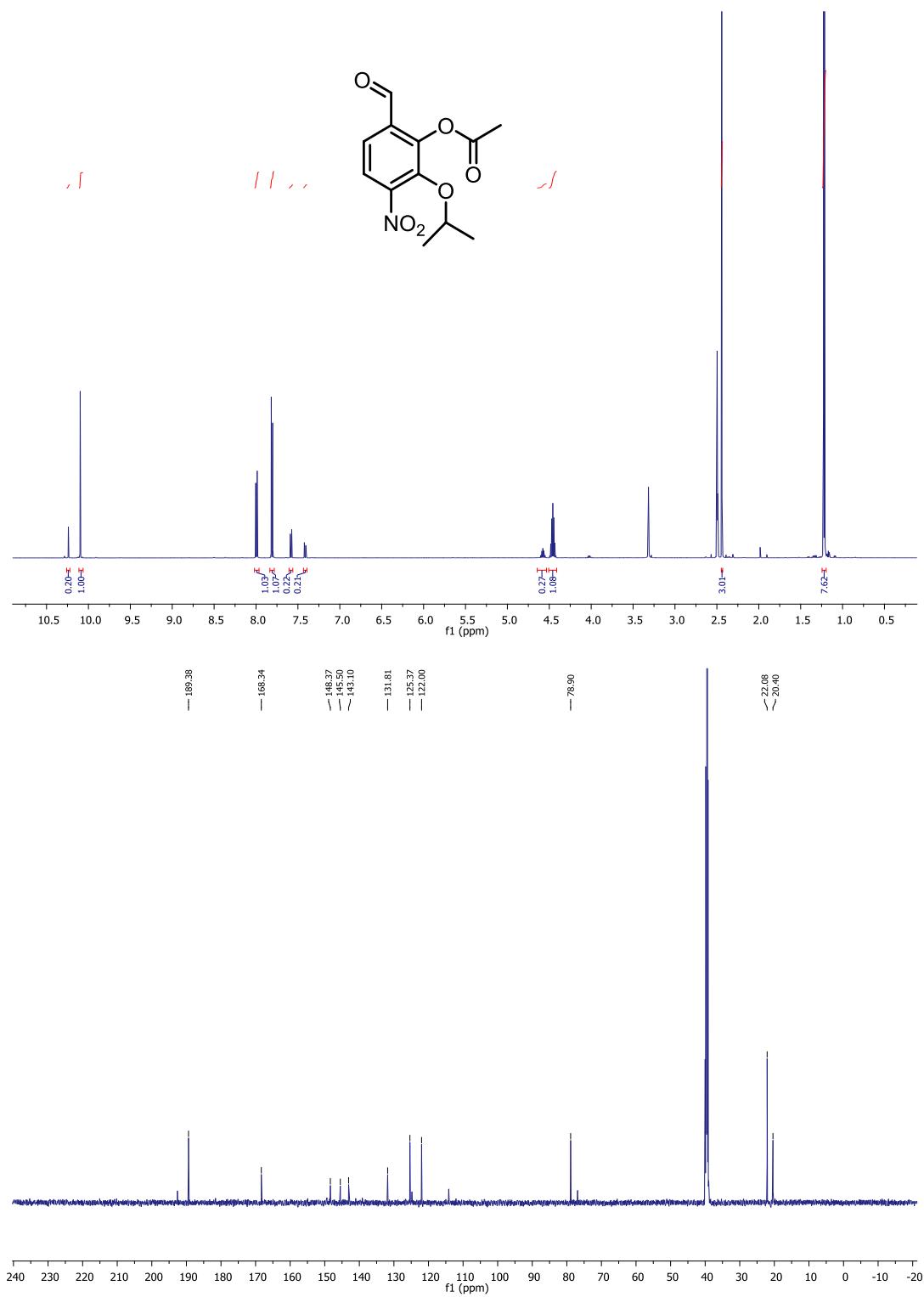
2-Hydroxy-3-isopropoxybenzaldehyde



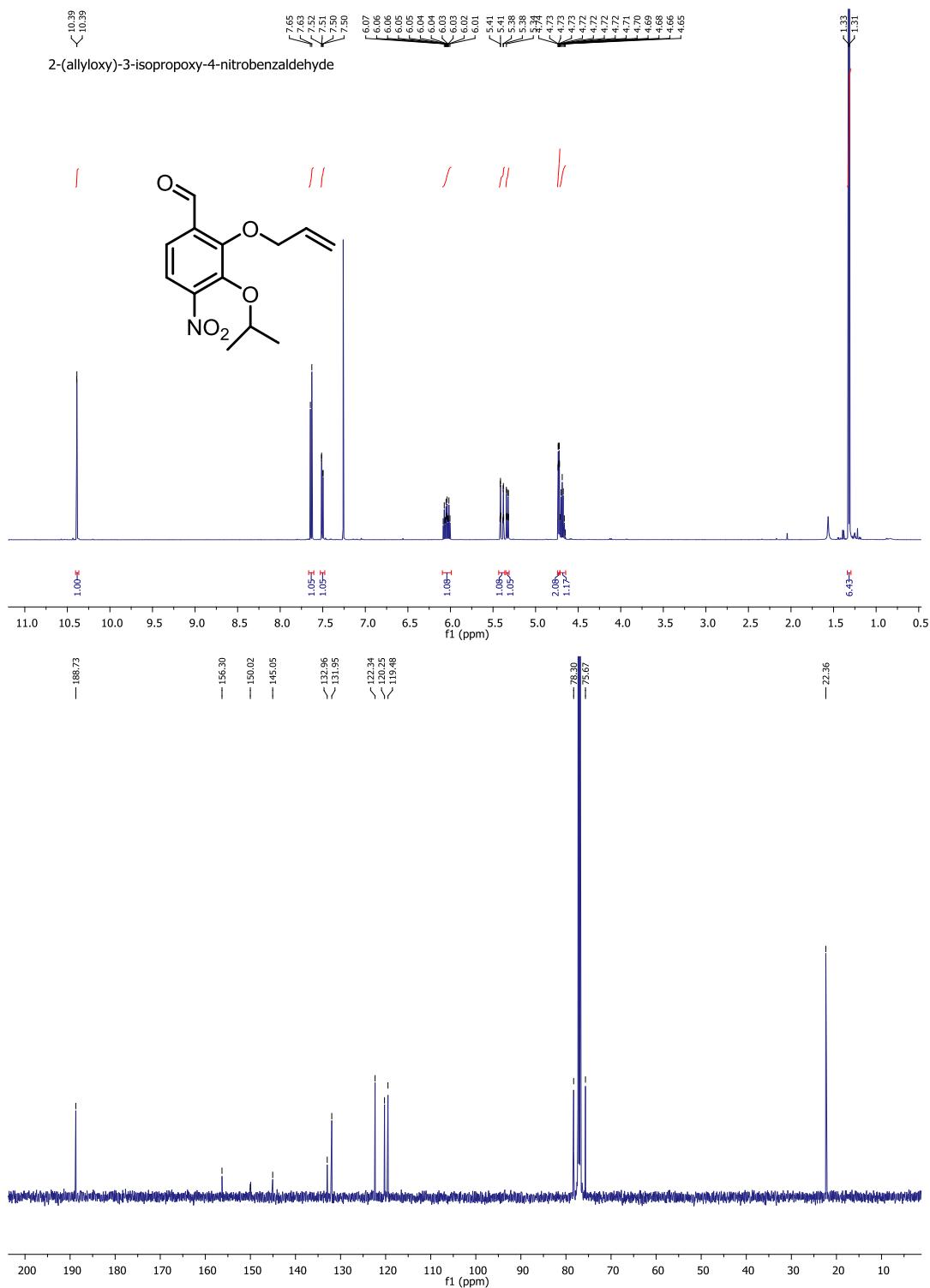
2-Formyl-6-isopropoxyphenyl acetate



6-Formyl-2-isopropoxy-3-nitrophenyl acetate



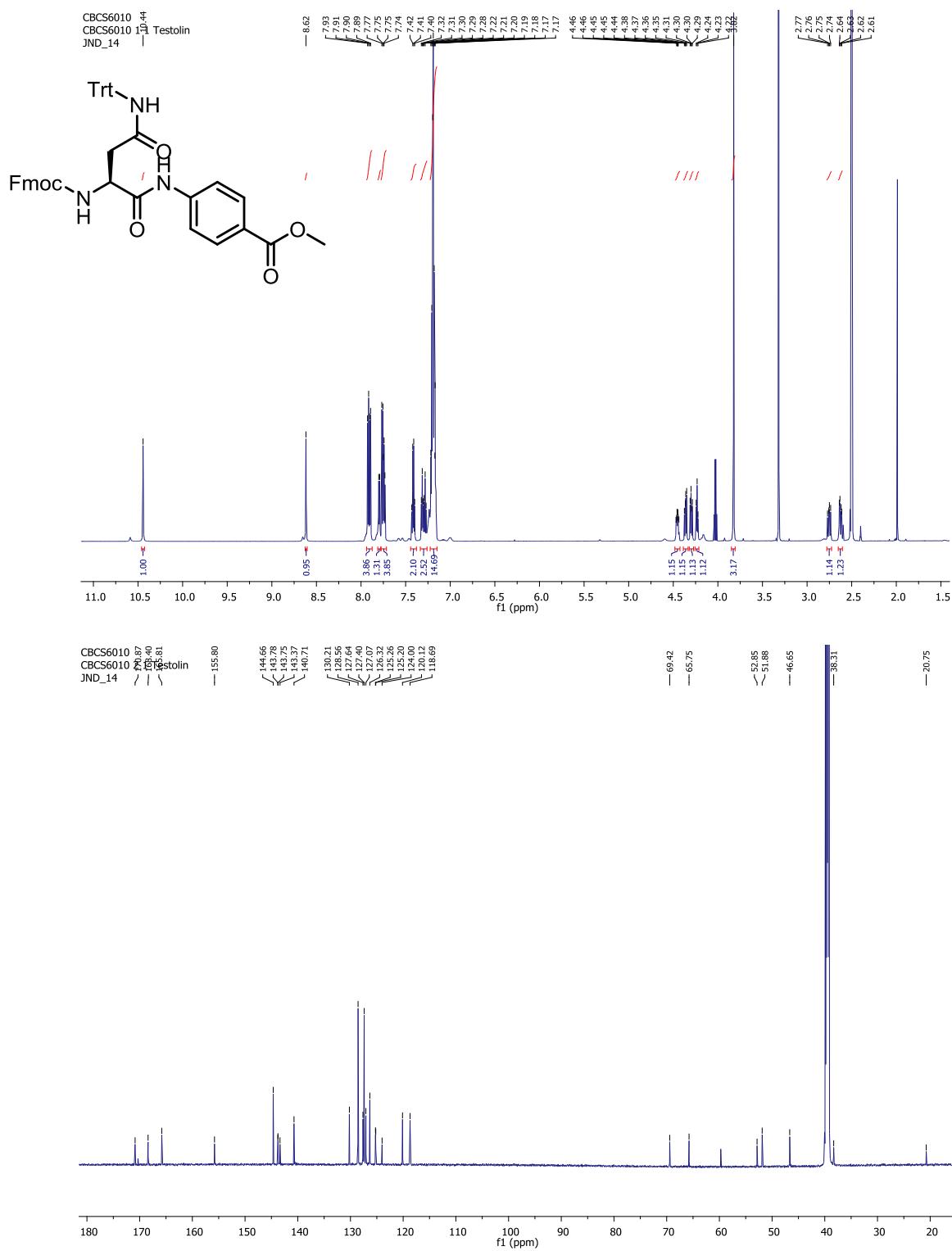
2-(Allyloxy)-3-isopropoxy-4-nitrobenzaldehyde



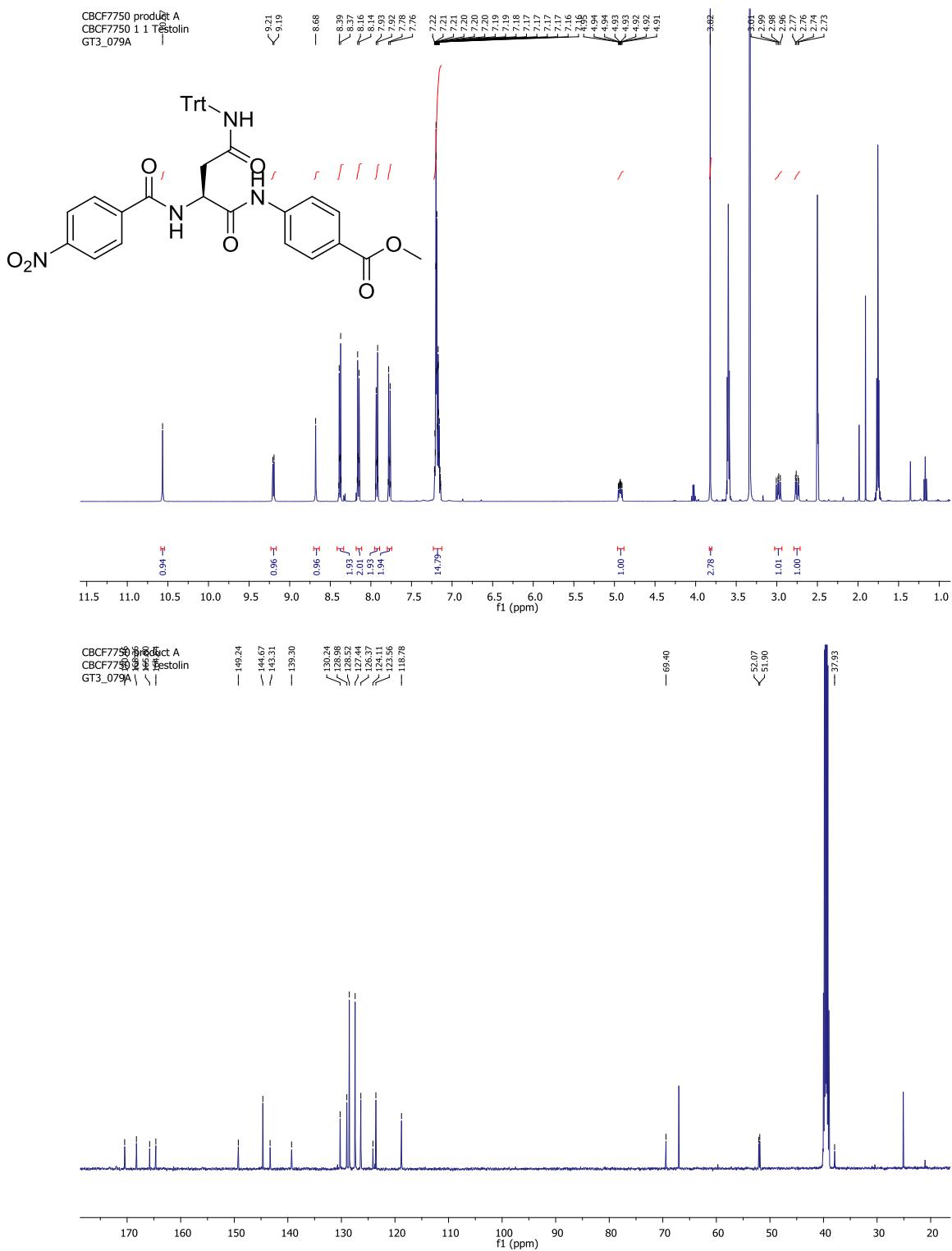
Methyl

(S)-4-(((((9H-fluoren-9-yl)methoxy)carbonyl)amino)-4-oxo-4-

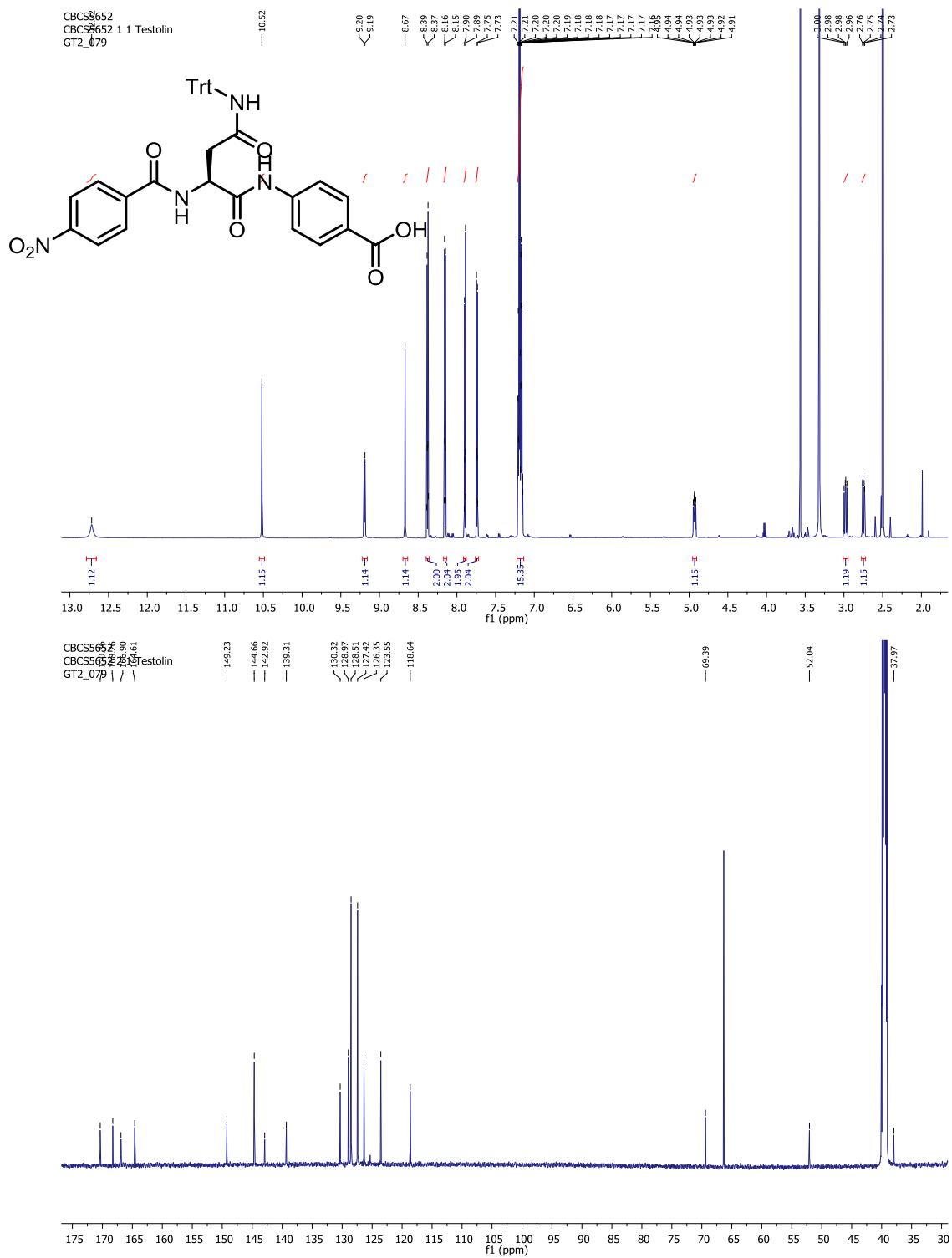
(tritylamo)butanamido)benzoate



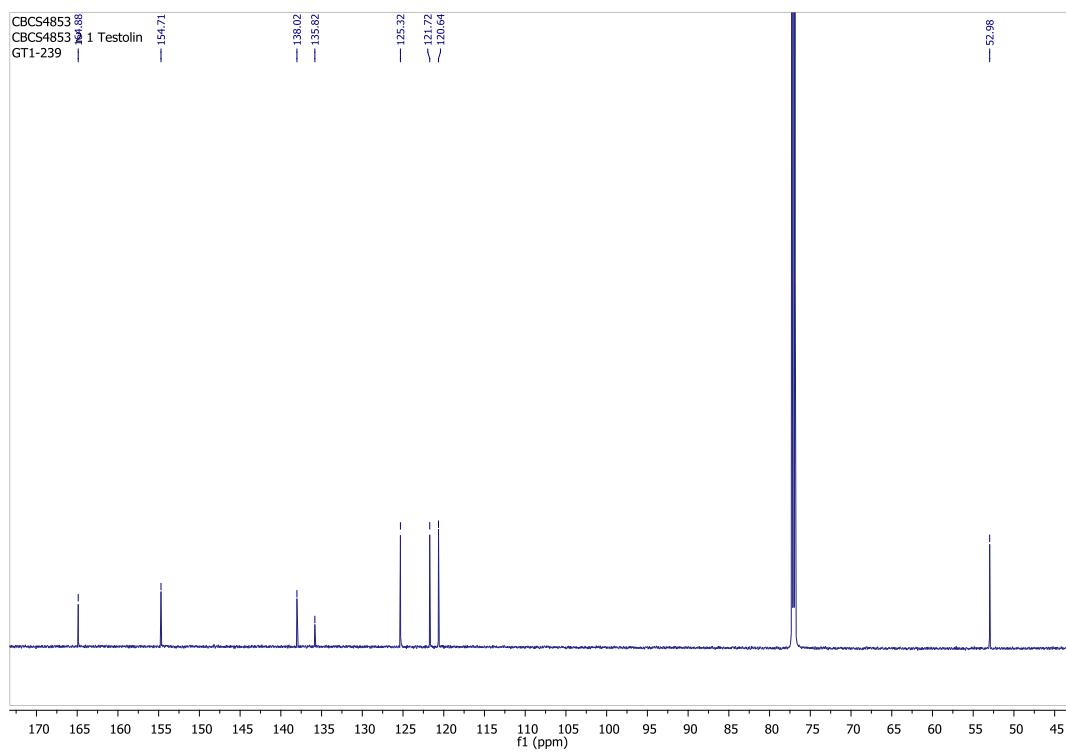
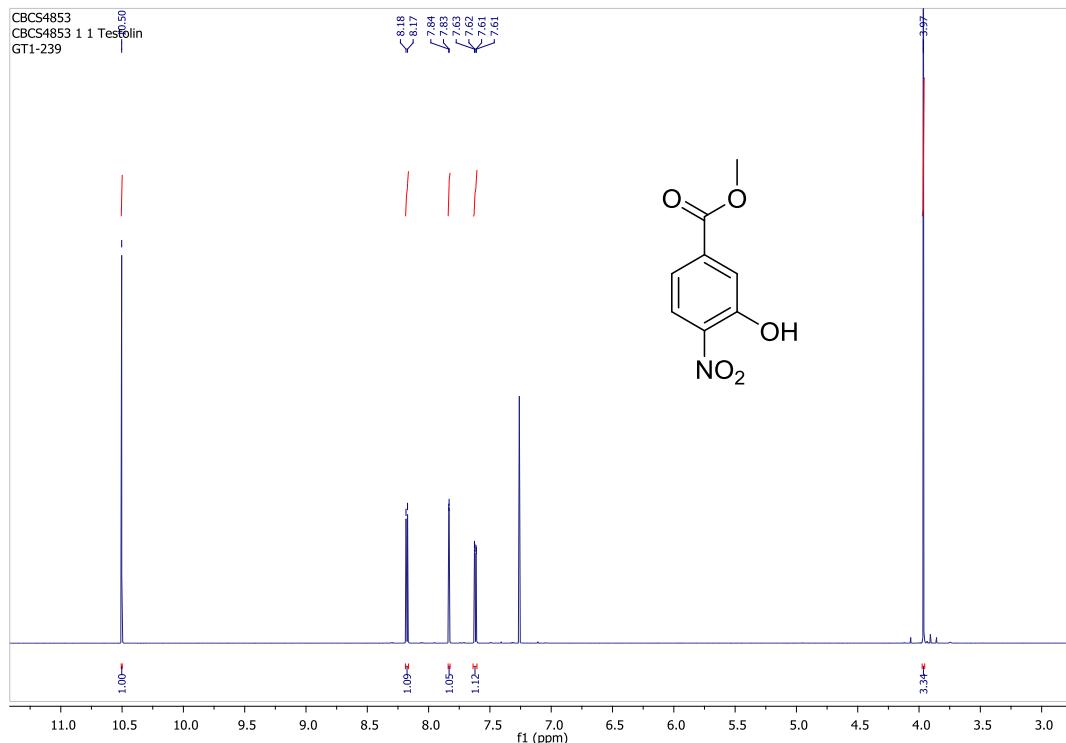
Methyl (S)-4-(2-(4-nitrobenzamido)-4-oxo-4-(tritylamo)butanamido)benzoate



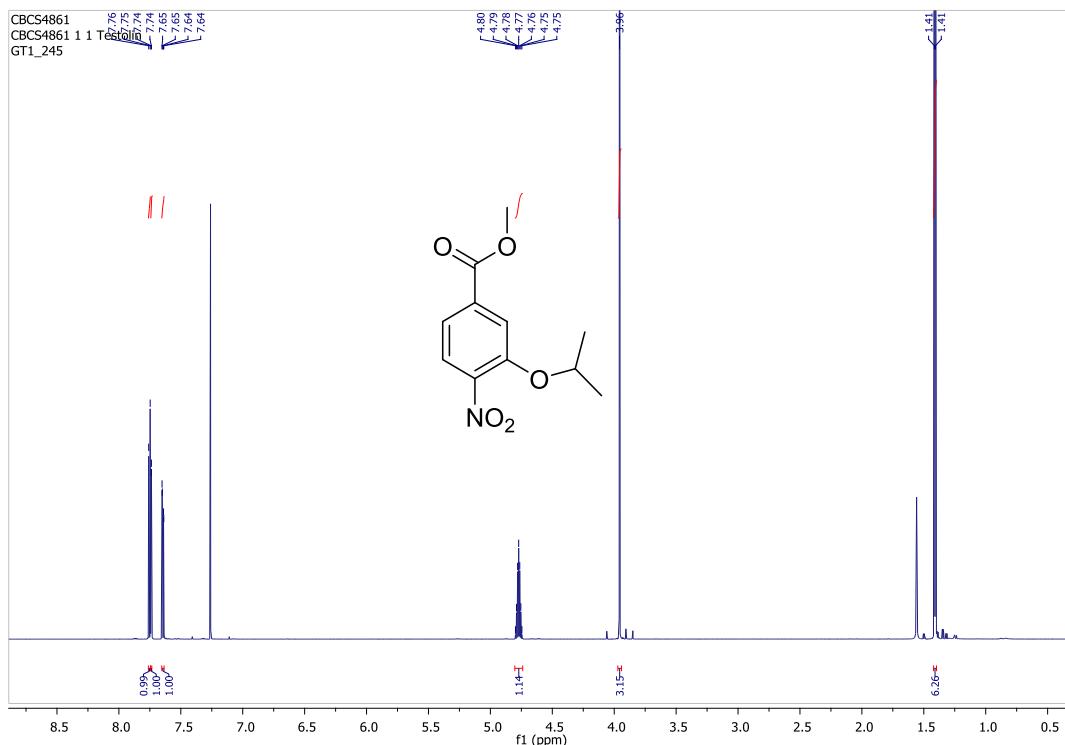
(S)-4-(2-(4-Nitrobenzamido)-4-oxo-4-(tritylamo)butanamido)benzoic acid



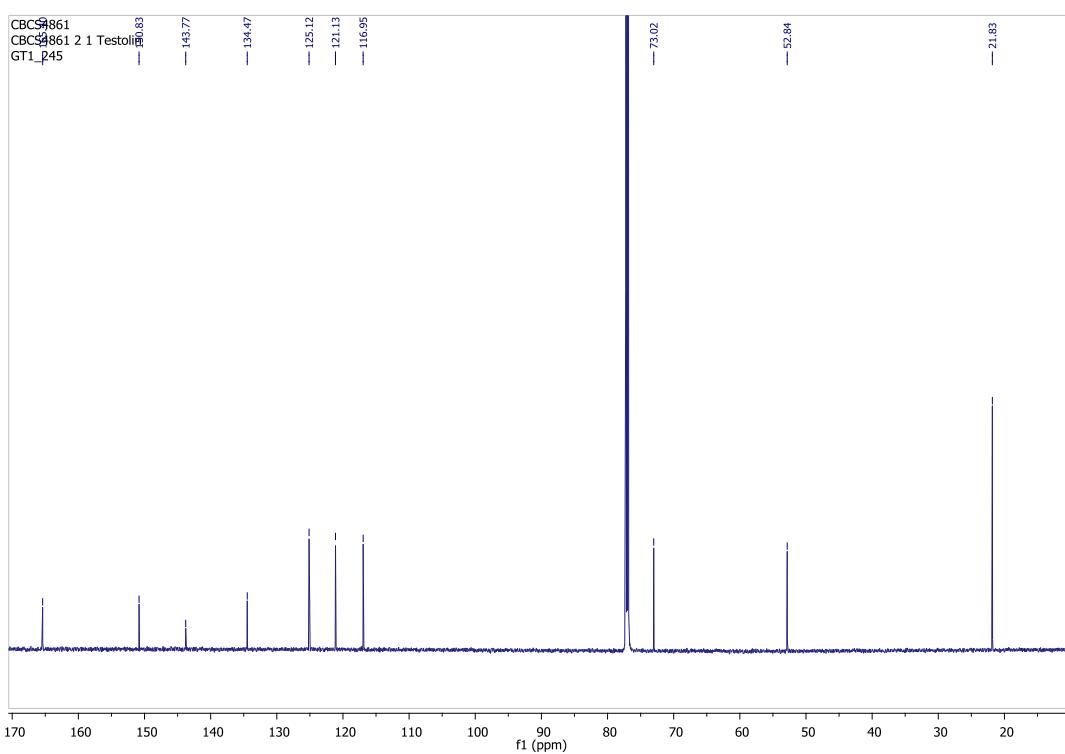
Methyl 3-hydroxy-4-nitrobenzoate



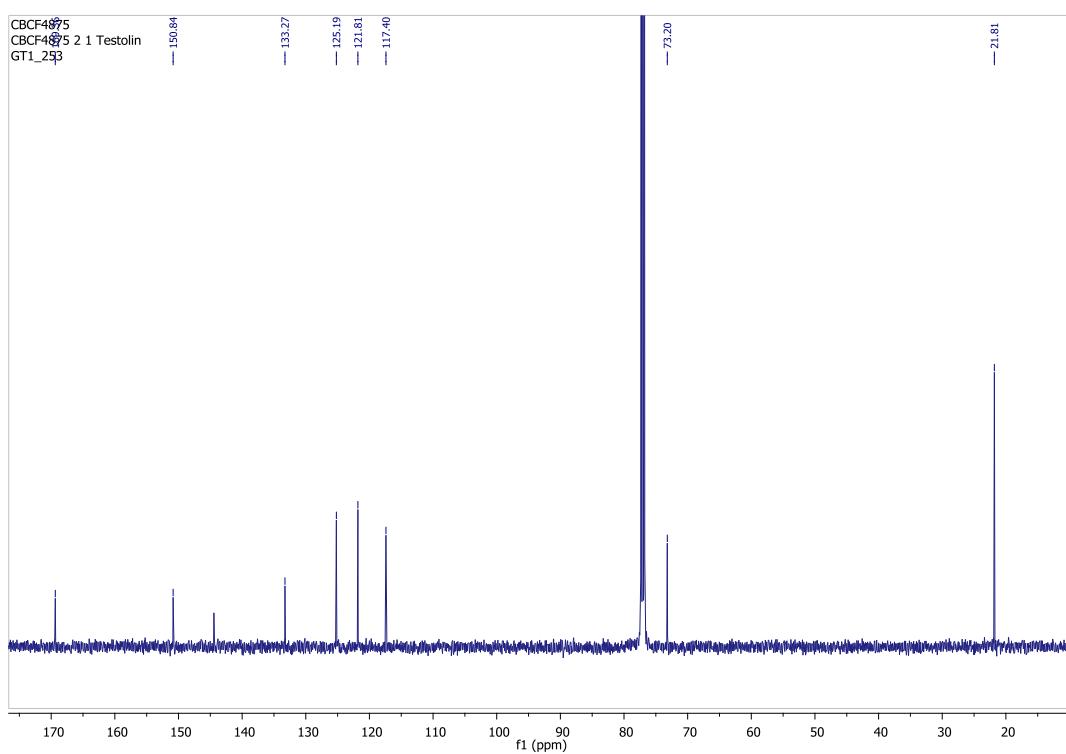
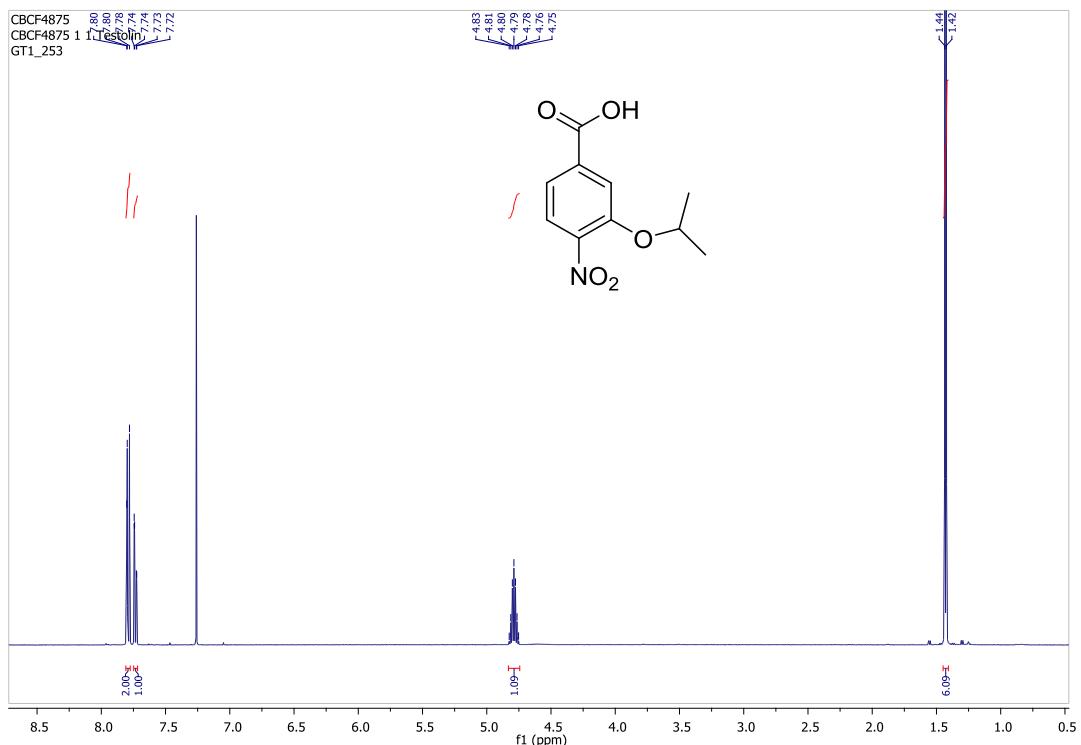
Methyl



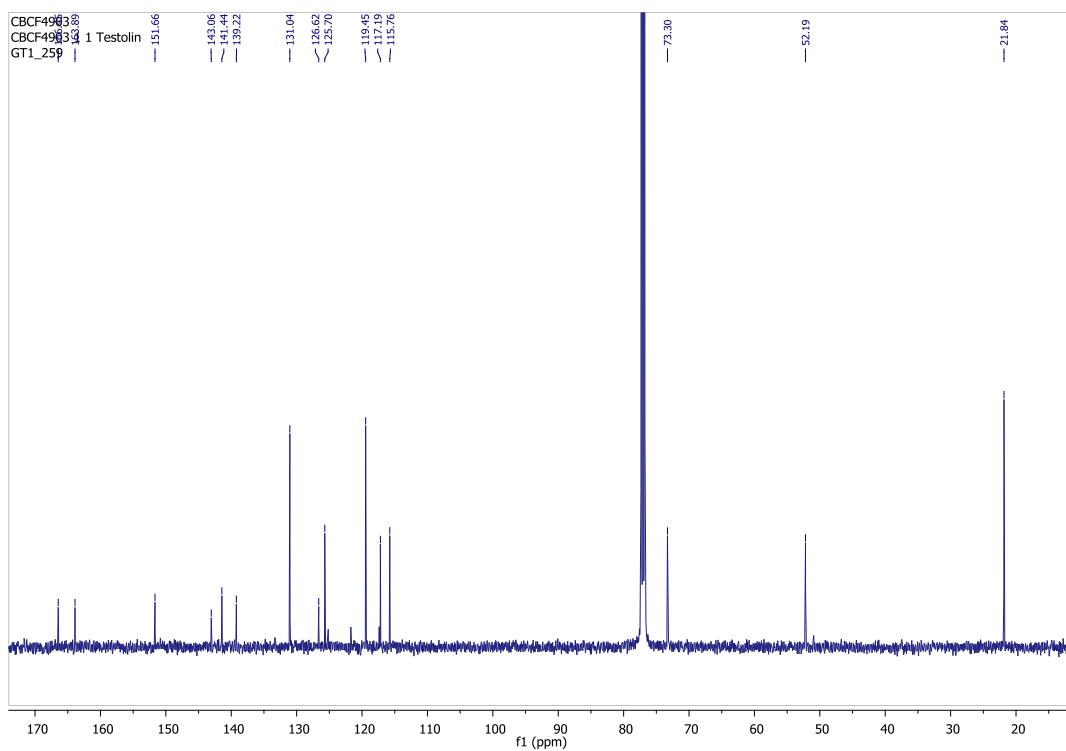
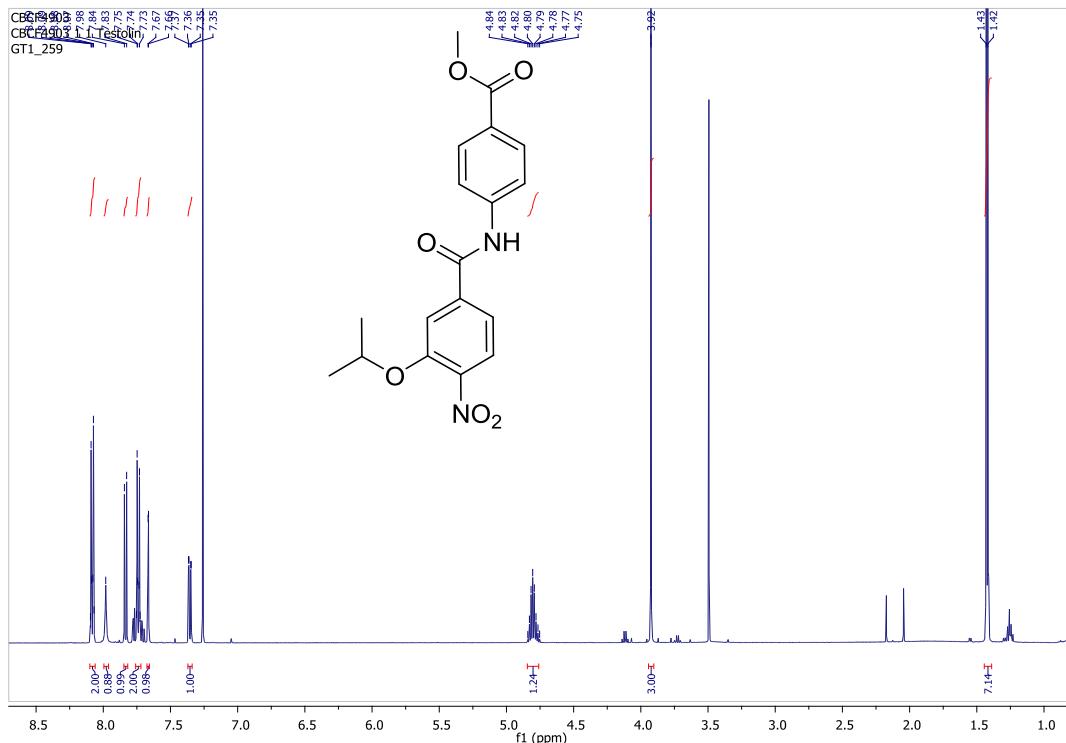
3-isopropoxy-4-nitrobenzoate



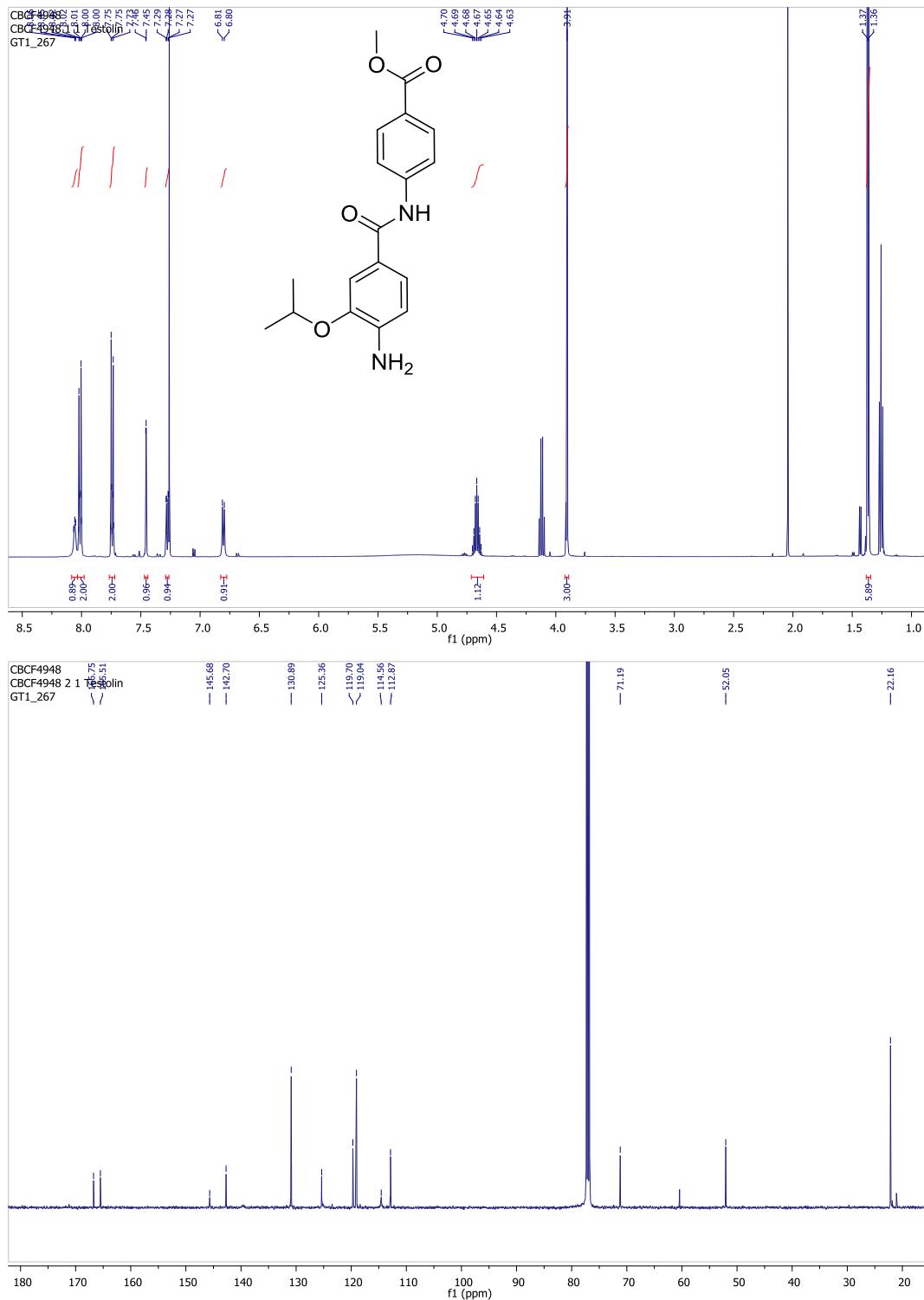
3-Isopropoxy-4-nitrobenzoic acid



Methyl 4-(3-isopropoxy-4-nitrobenzamido)benzoate

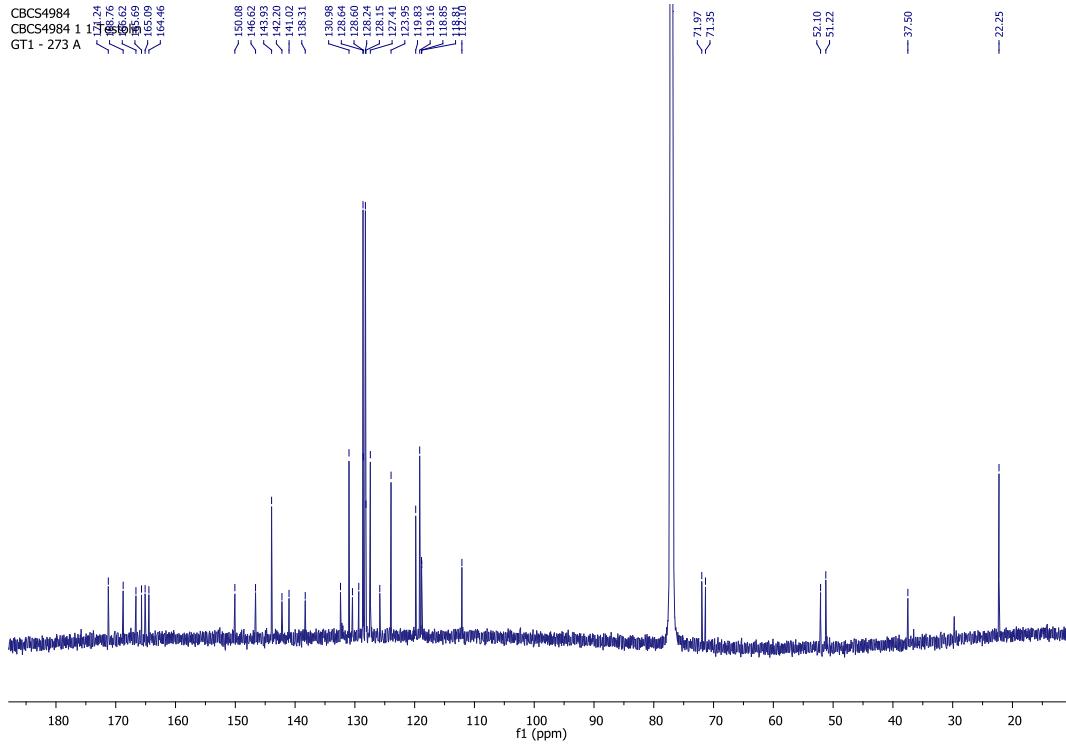
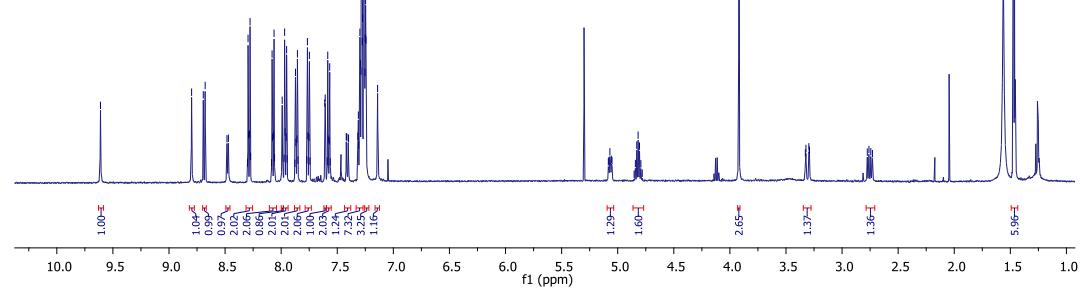
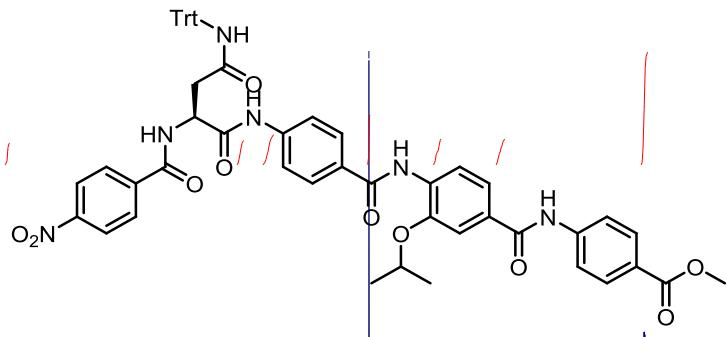


Methyl 4-(4-amino-3-isopropoxybenzamido)benzoate

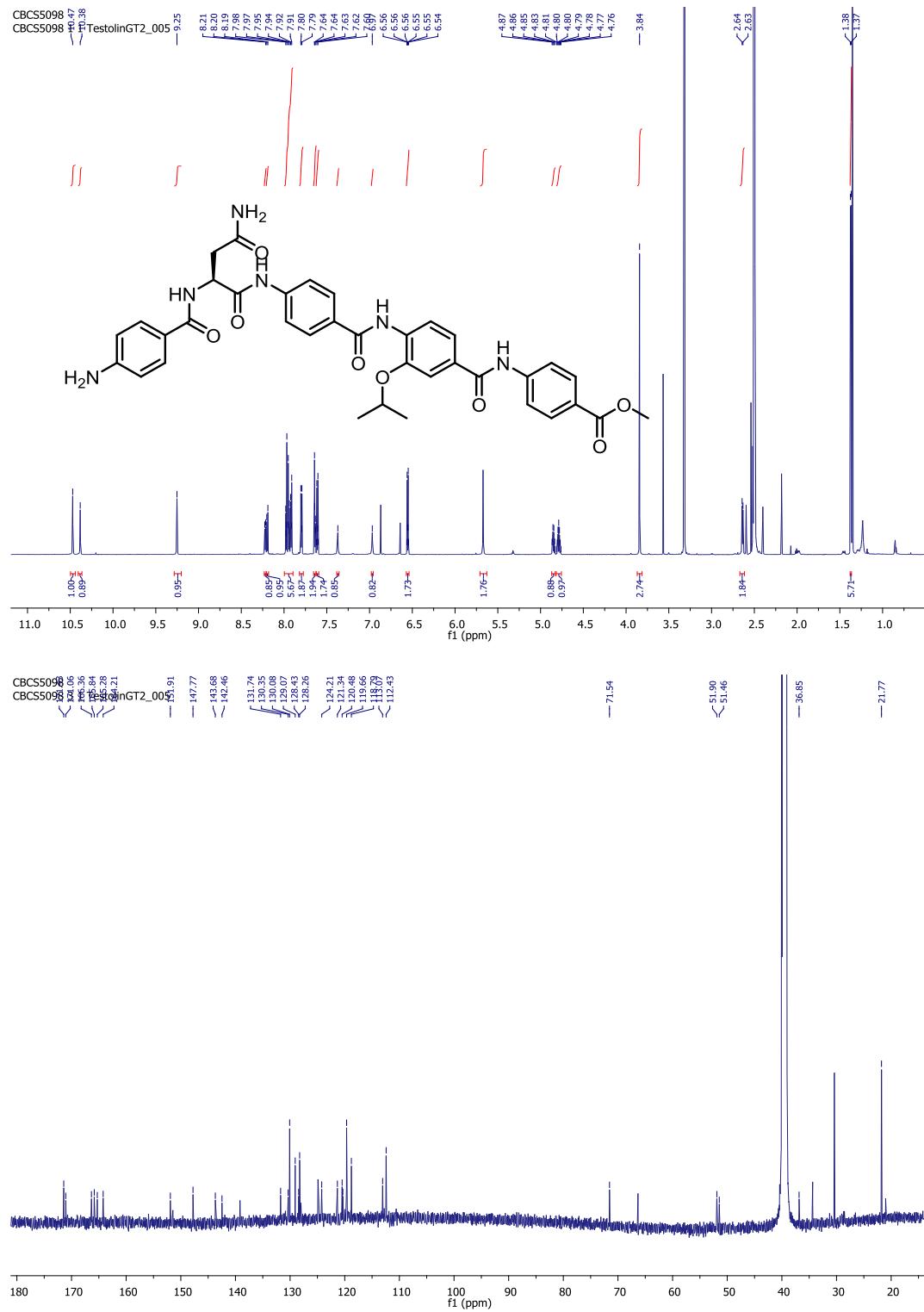


Methyl

(S)-4-(3-isopropoxy-4-(4-(2-(4-nitrobenzamido)-4-oxo-4-

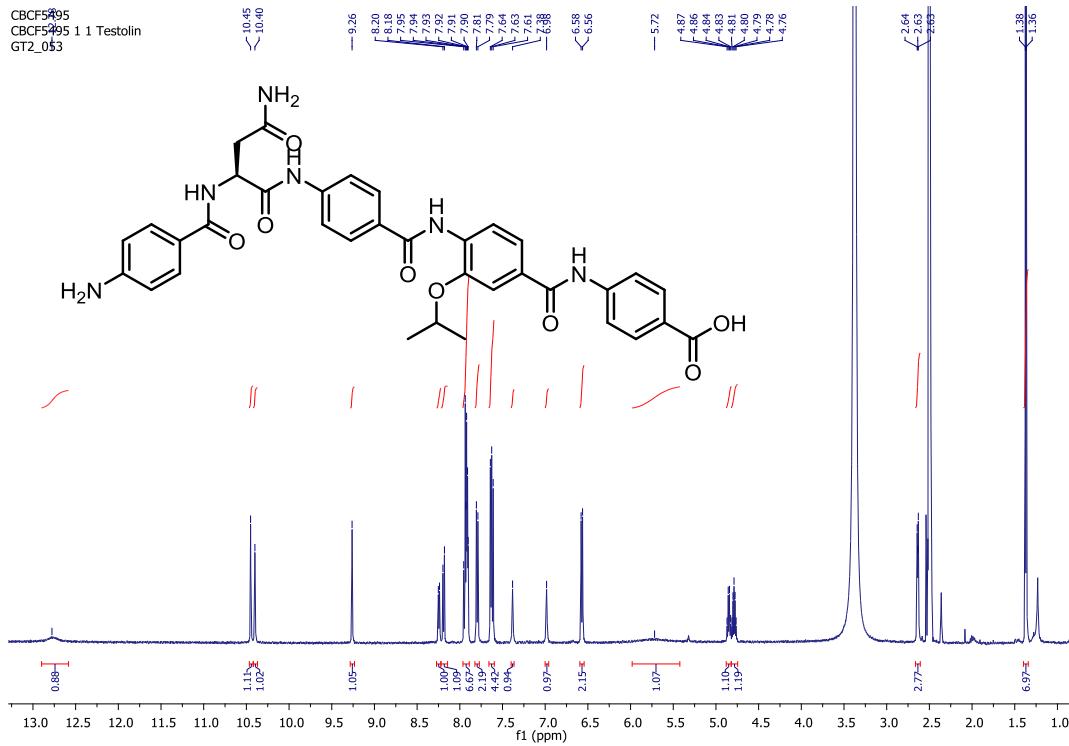


Methyl (S)-4-(4-(4-amino-2-(4-aminobenzamido)-4-oxobutanamido)benzamido)-3-isopropoxybenzamido)benzoate

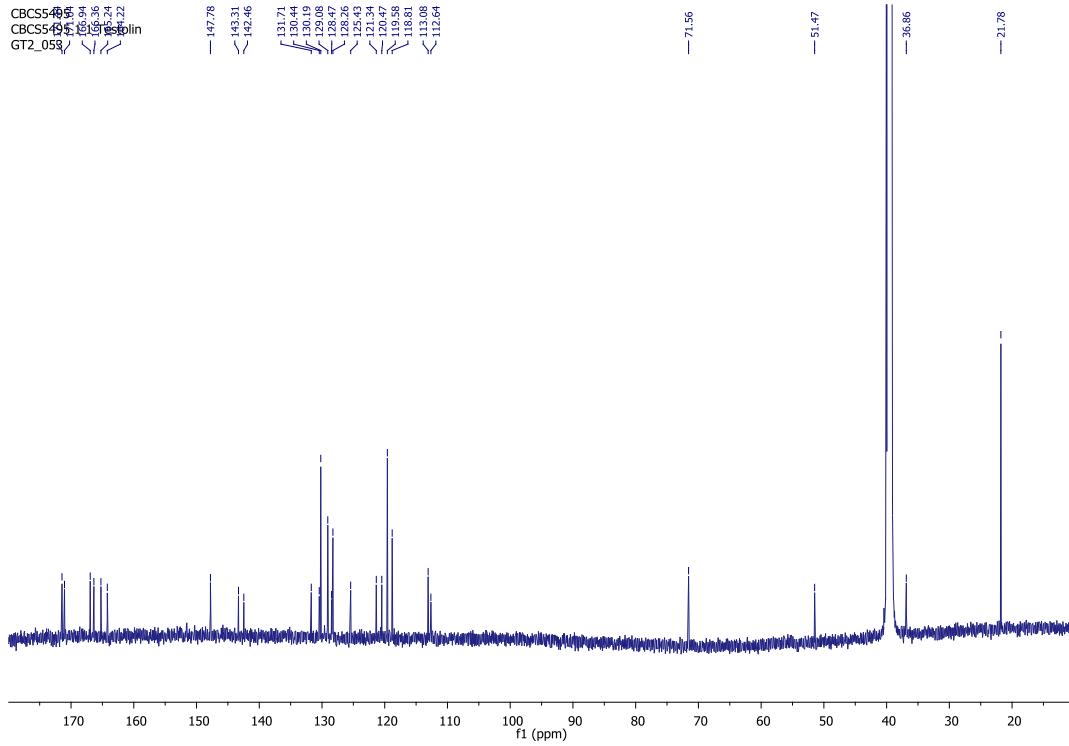


(S)-4-(4-(4-Amino-2-(4-aminobenzamido)-4-oxobutanamido)benzamido)-3-isopropoxybenzamido)benzoic acid

CBCF595
CBCF595 1 1 Testolin
GT2_053

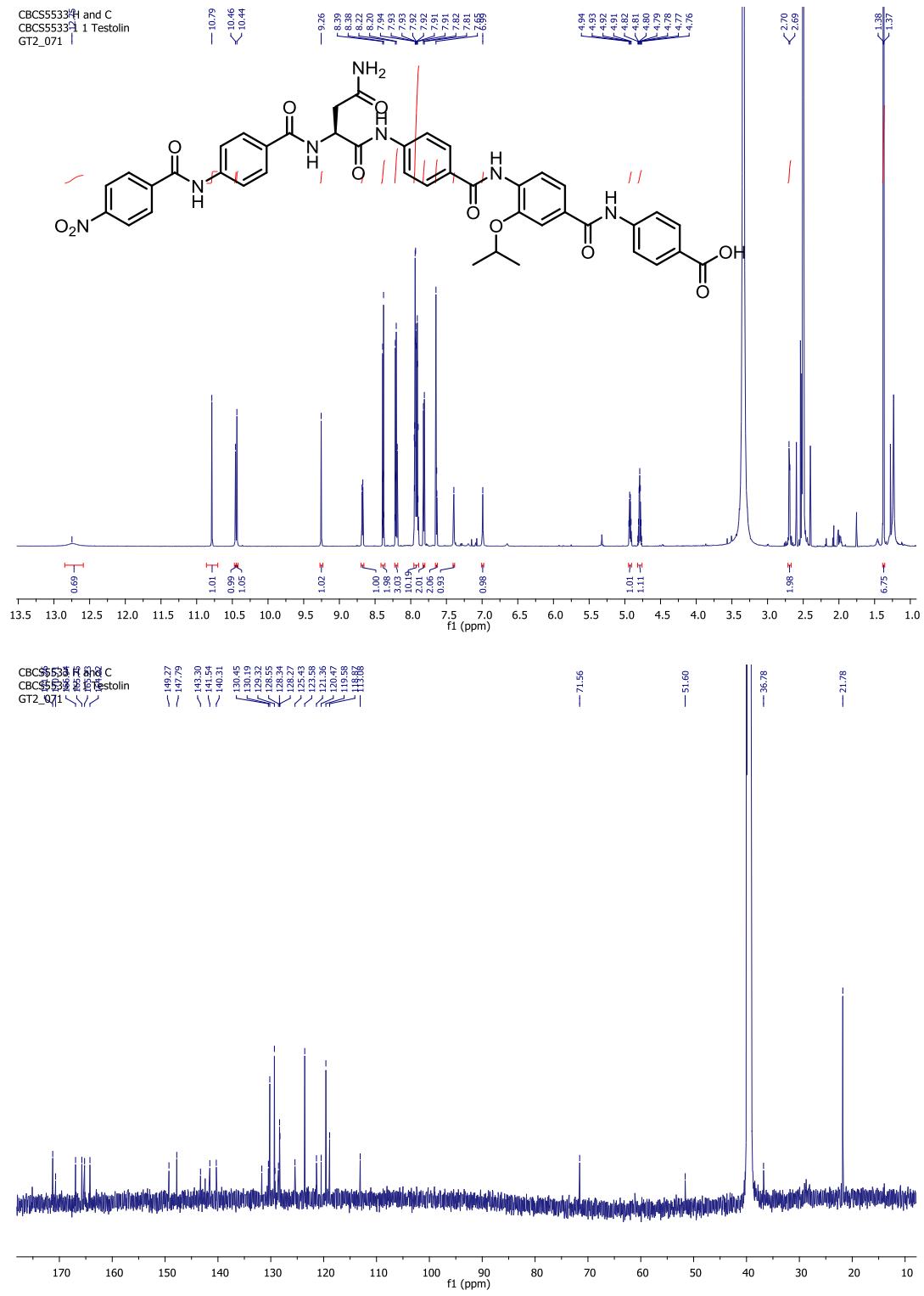


CBCS595
CBCS595 1 1 Testolin
GT2_053

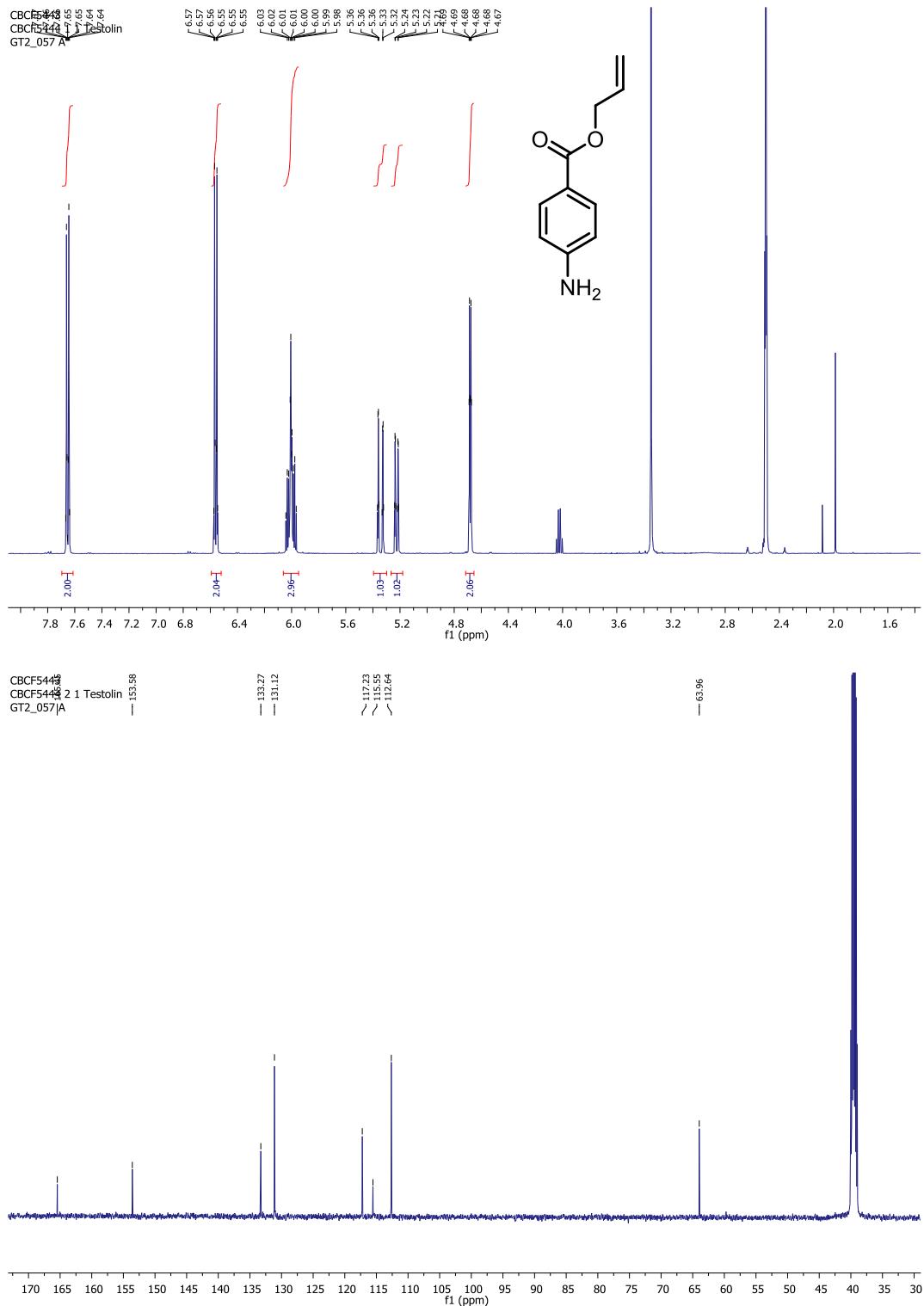


(S)-4-(4-(4-Amino-2-(4-(4-nitrobenzamido)benzamido)-4-oxobutanamido)benzamido)-3-isopropoxybenzamido)benzoic acid

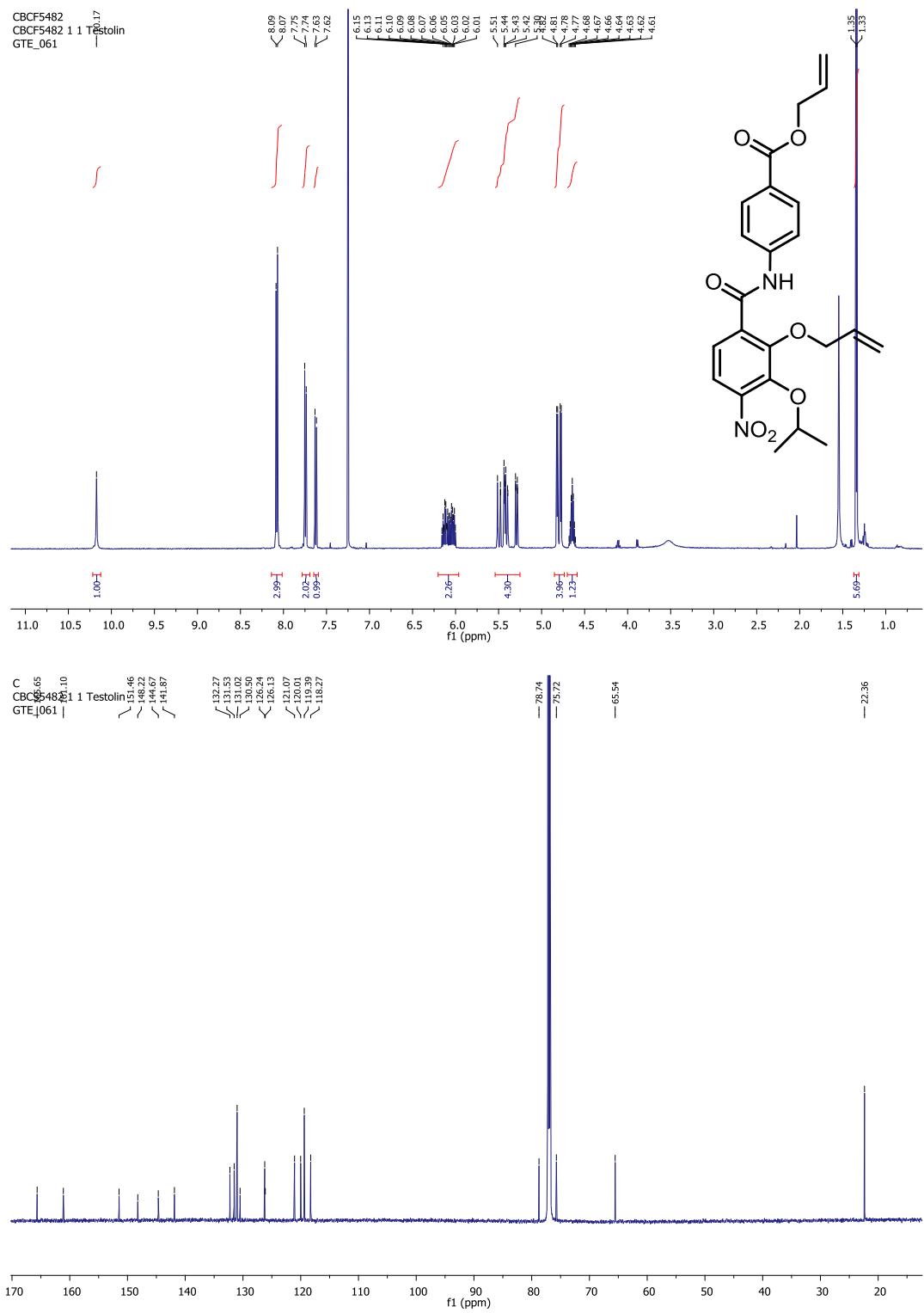
CBCS5533H and C
CBCS55331 1 Testolin
GT2_071



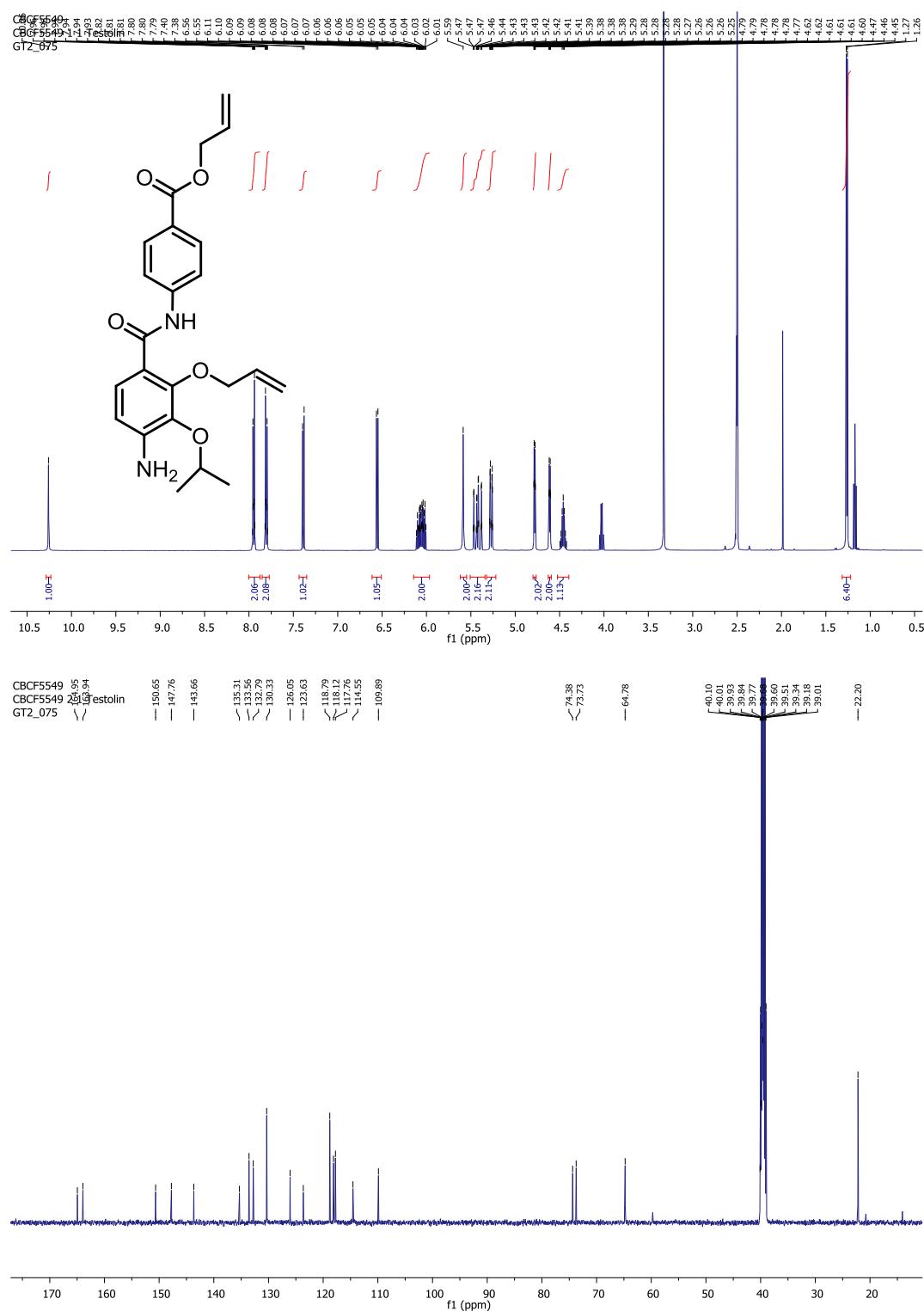
Allyl 4-aminobenzoate



Allyl 4-(2-(allyloxy)-3-isopropoxy-4-nitrobenzamido)benzoate



Allyl 4-(2-(allyloxy)-4-amino-3-isopropoxybenzamido)benzoate

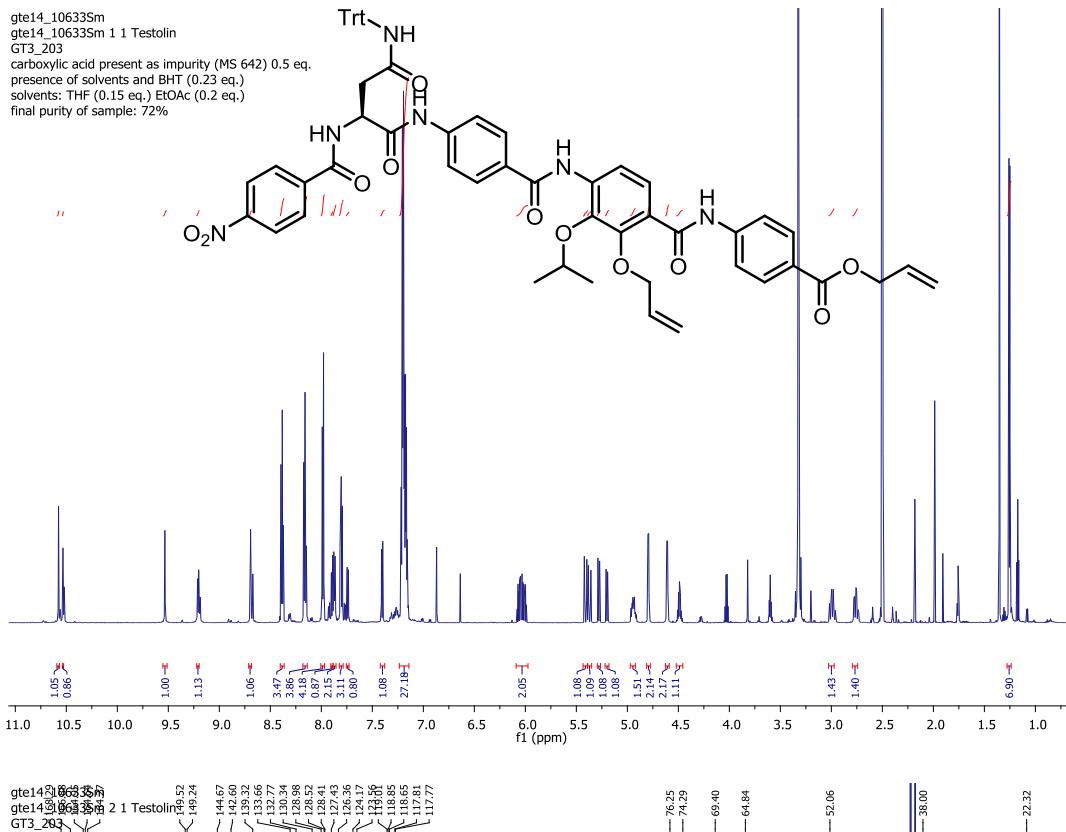


Allyl

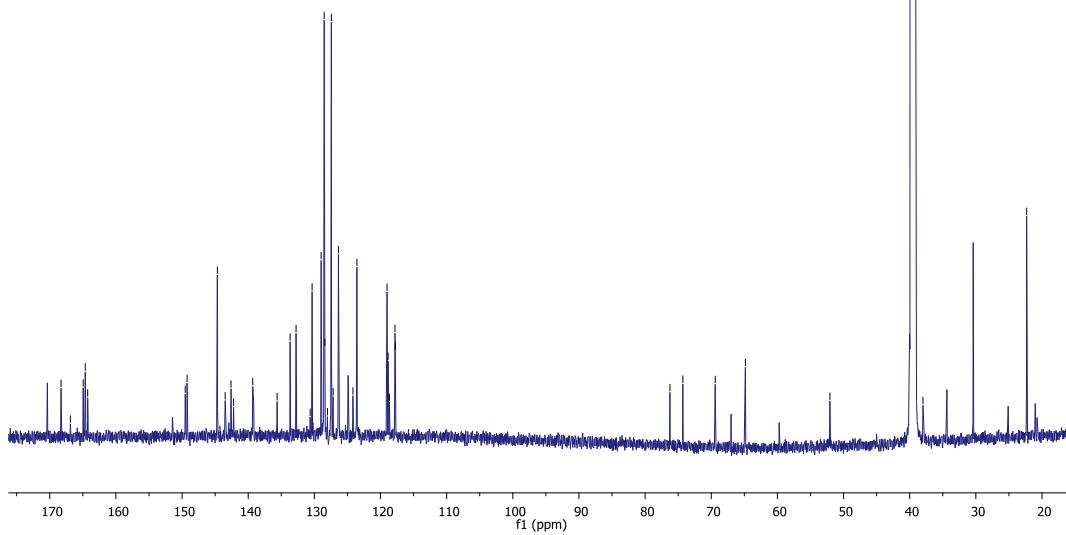
(S)-4-(2-(allyloxy)-3-isopropoxy-4-(4-(4-nitrobenzamido)-4-oxo-4-(tritylamino)butanamido)benzamido)benzamido)benzoate

gte14_10633Sm
gte14_10633Sm 1 1 Testolin
GT3_203

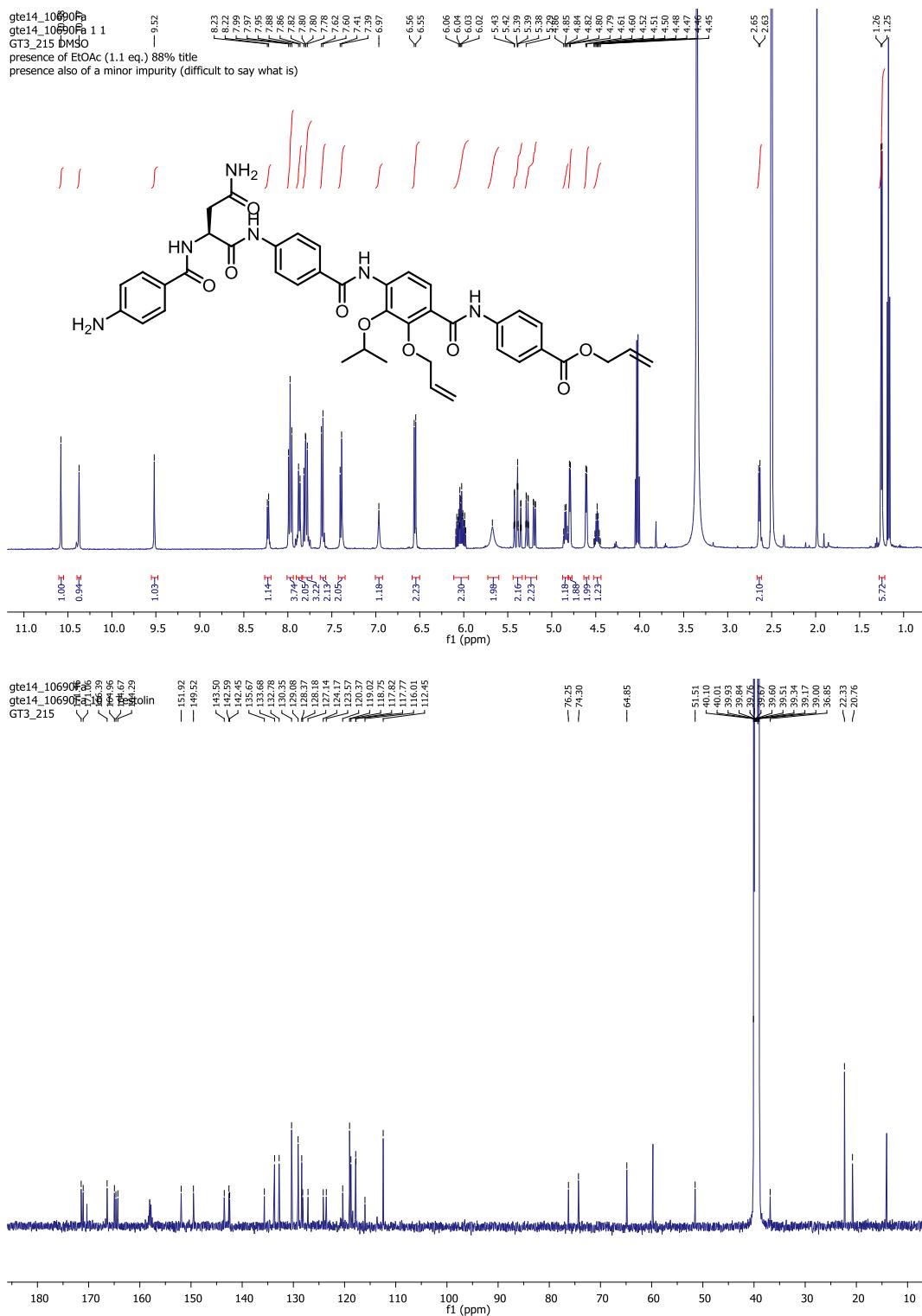
carboxylic acid present as impurity (MS 642) 0.5 eq.
presence of solvents and BHT (0.23 eq.)
solvents: THF (0.15 eq.) EtOAc (0.2 eq.)
final purity of sample: 72%



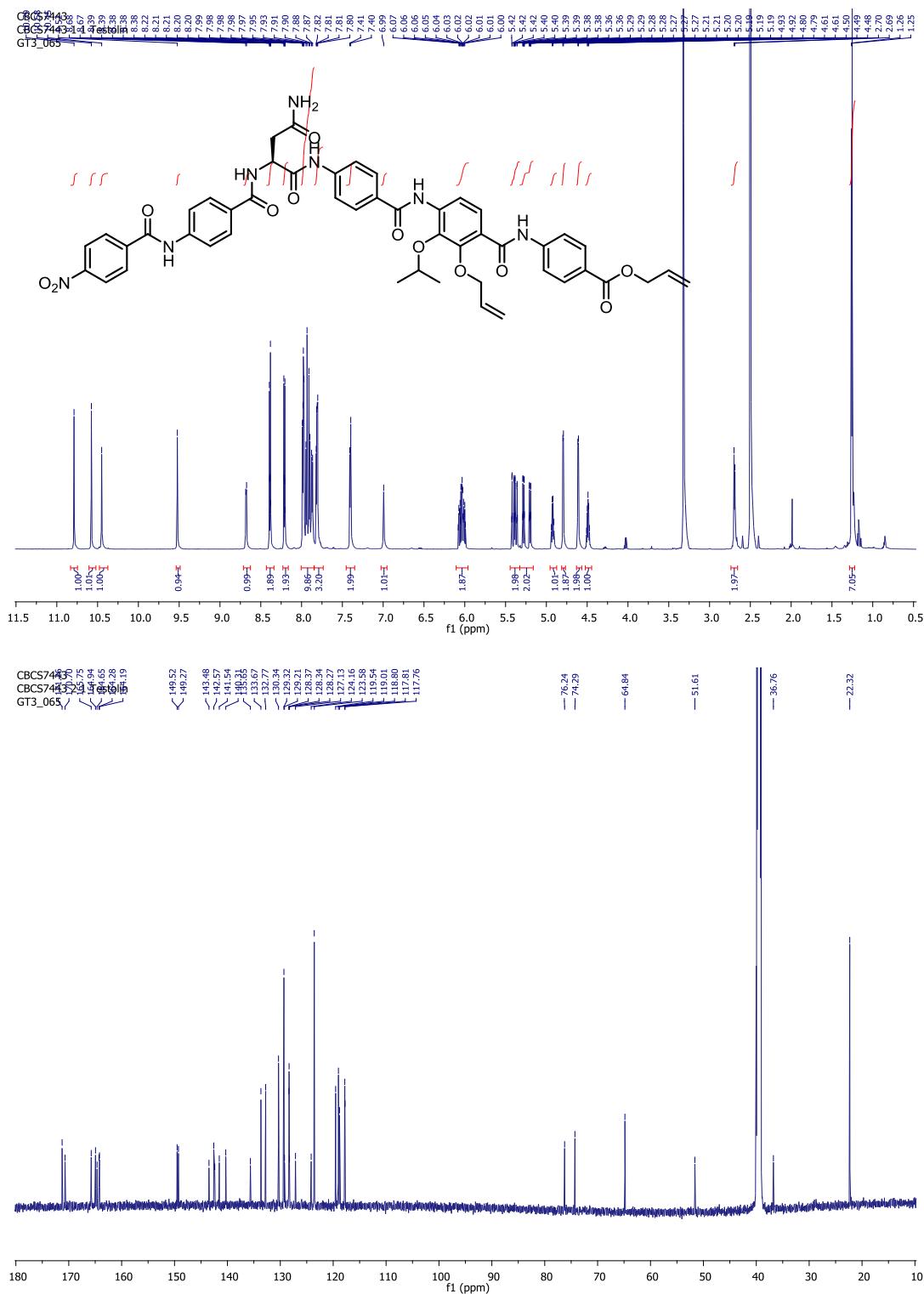
gte14_10633Sm
gte14_10633Sm 2 1 Testolin
GT3_203



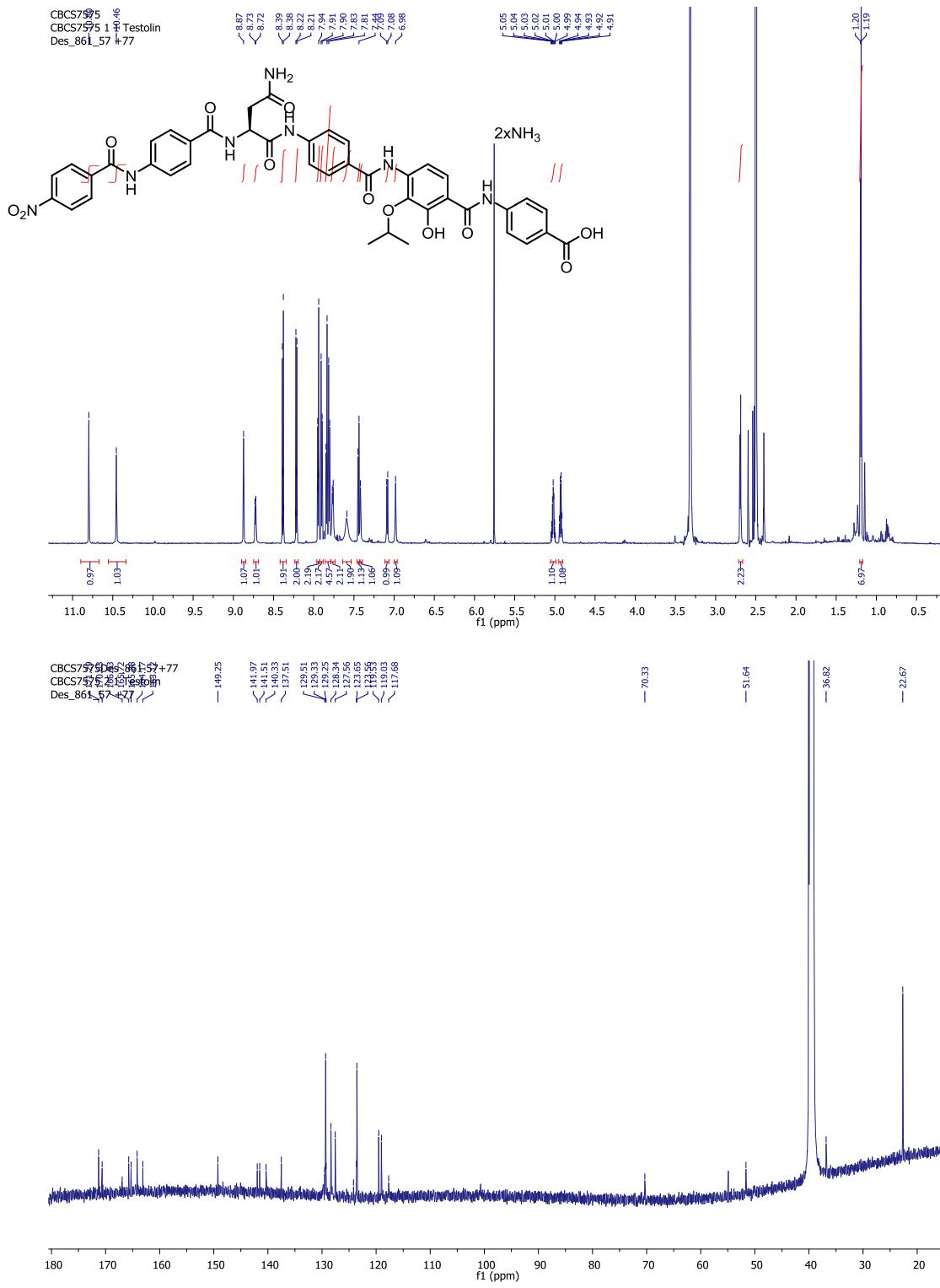
Allyl (S)-4-(2-(allyloxy)-4-(4-amino-2-(4-aminobenzamido)-4-oxobutanamido)benzamido)-3-isopropoxybenzamido)benzoate



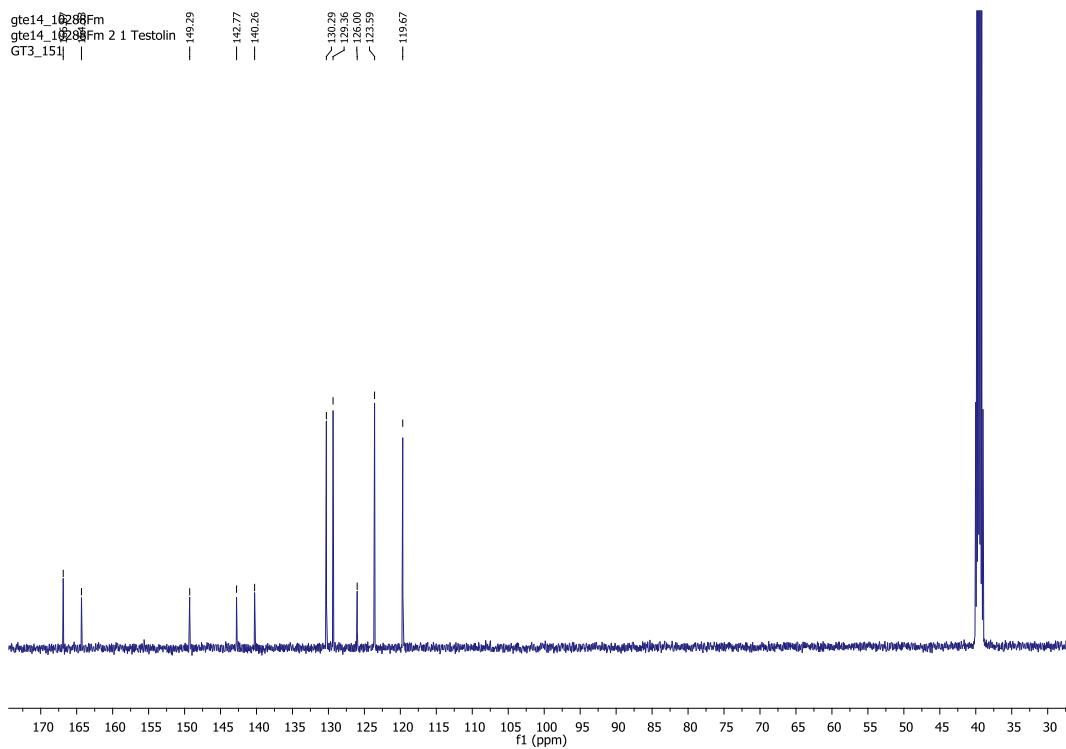
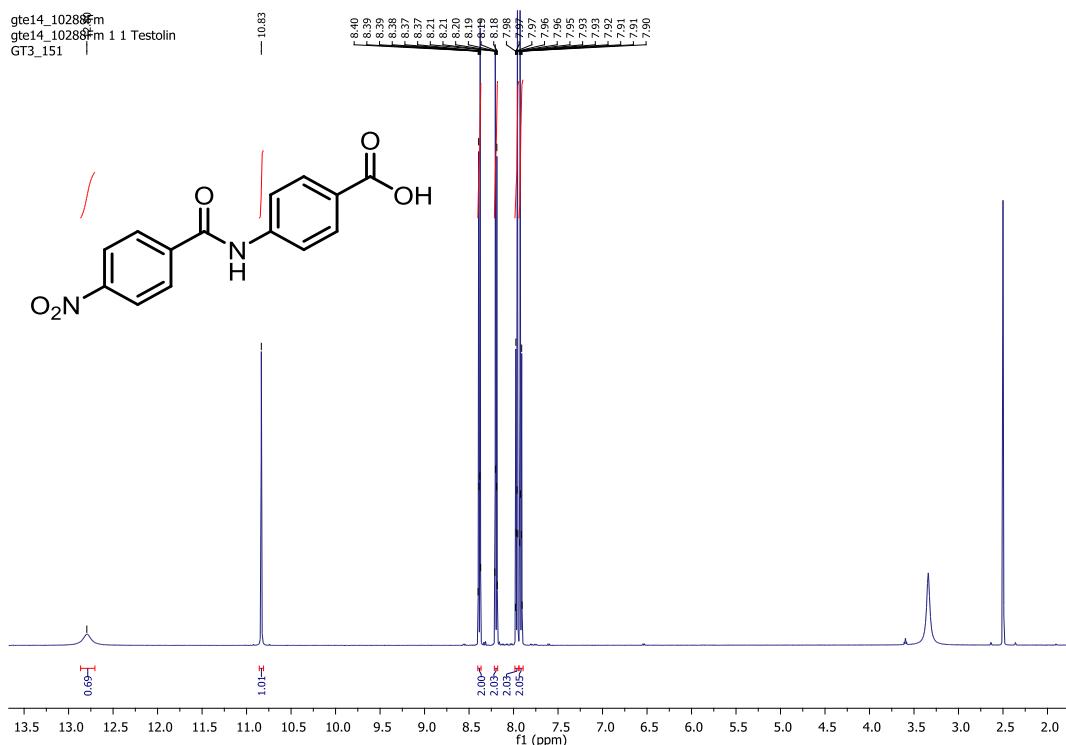
Allyl (S)-4-(2-(allyloxy)-4-(4-amino-2-(4-(4-nitrobenzamido)benzamido)-4-oxobutanamido)benzamido)-3-isopropoxybenzamido)benzoate



(S)-4-(4-(4-Amino-2-(4-(4-nitrobenzamido)benzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid

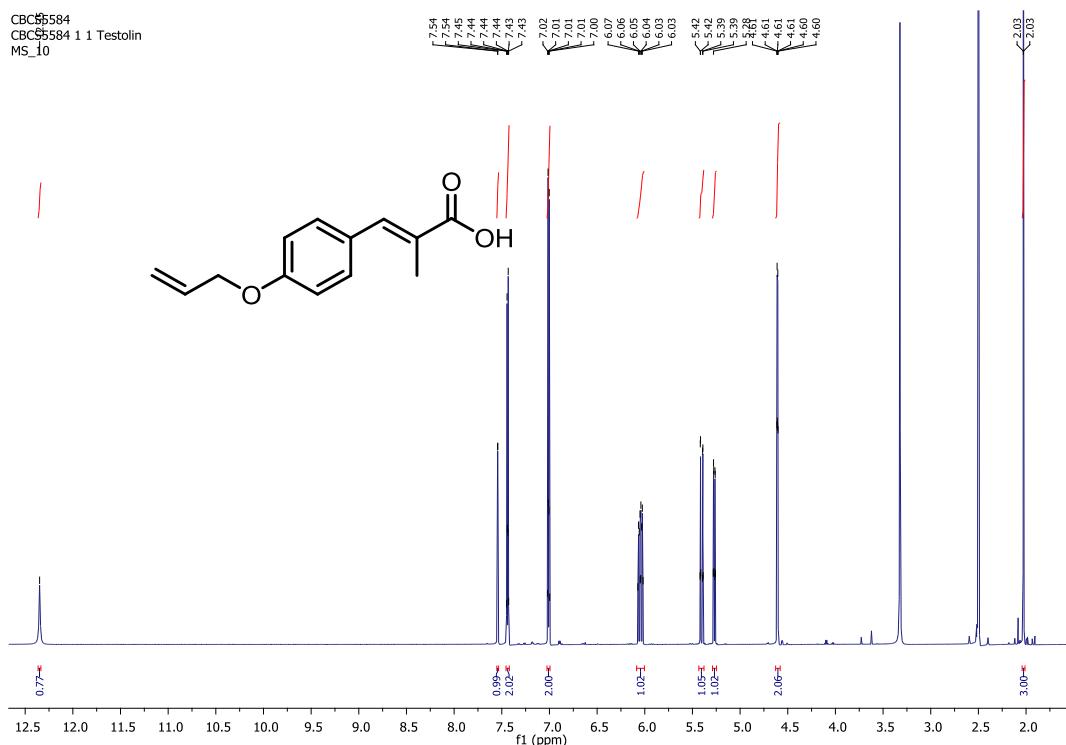
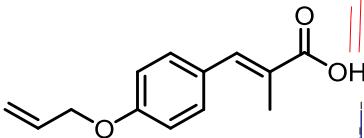


4-(4-Nitrobenzamido)benzoic acid

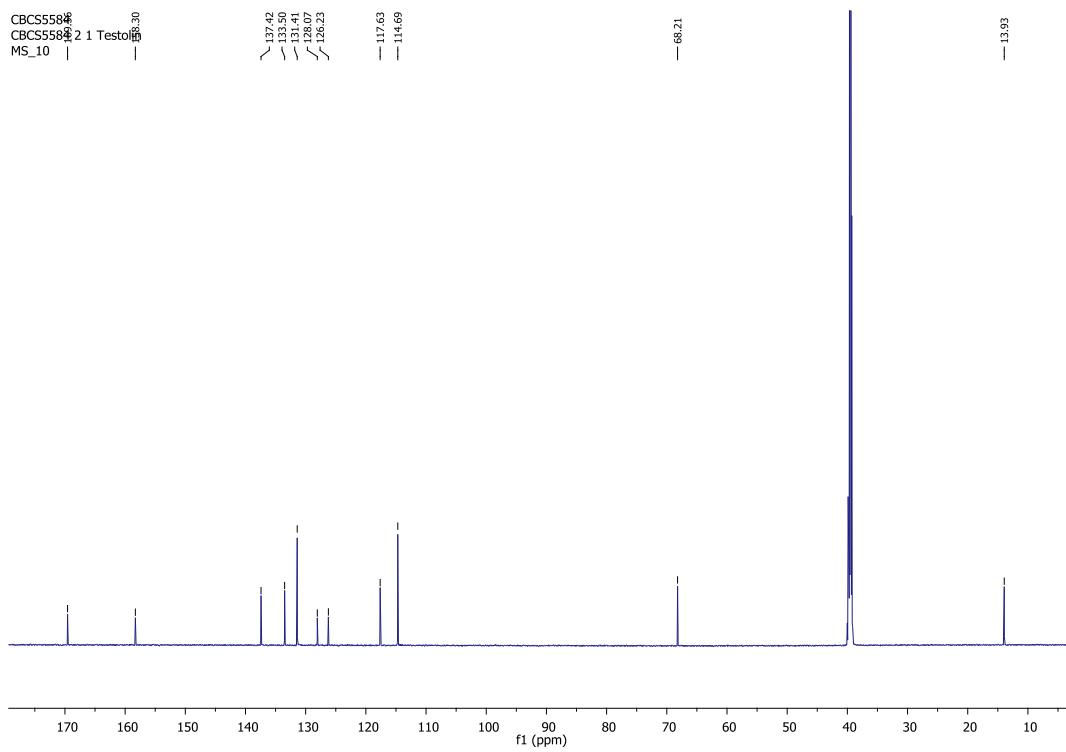


(E)-3-(4-(Allyloxy)phenyl)-2-methylacrylic acid

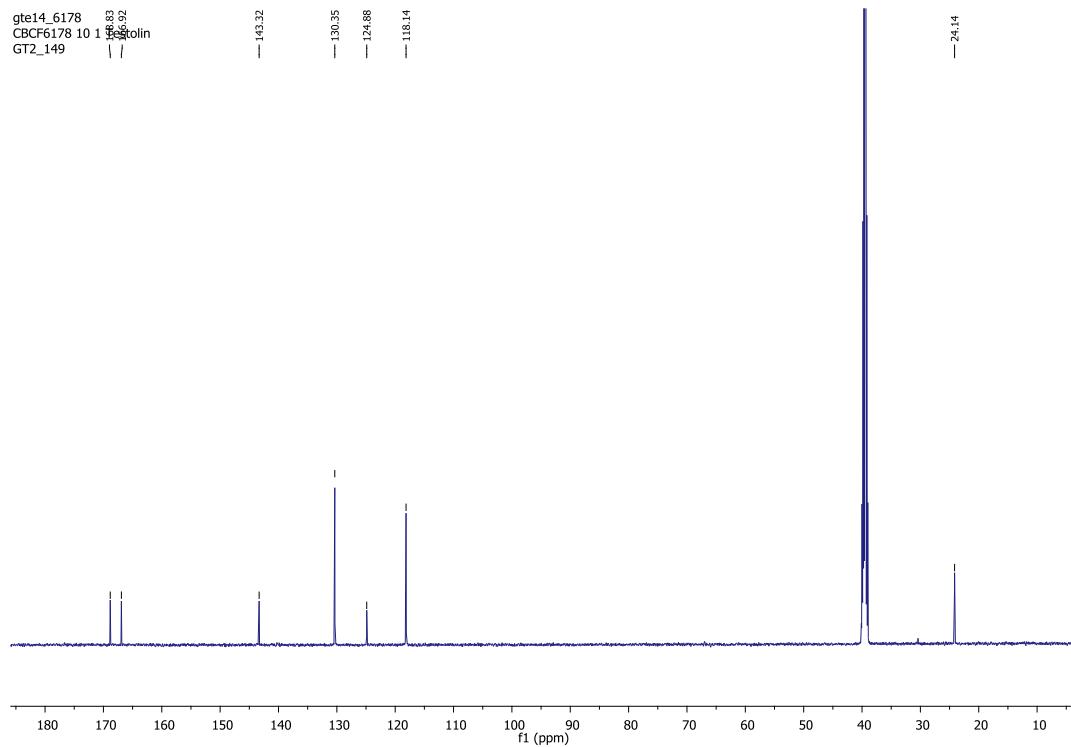
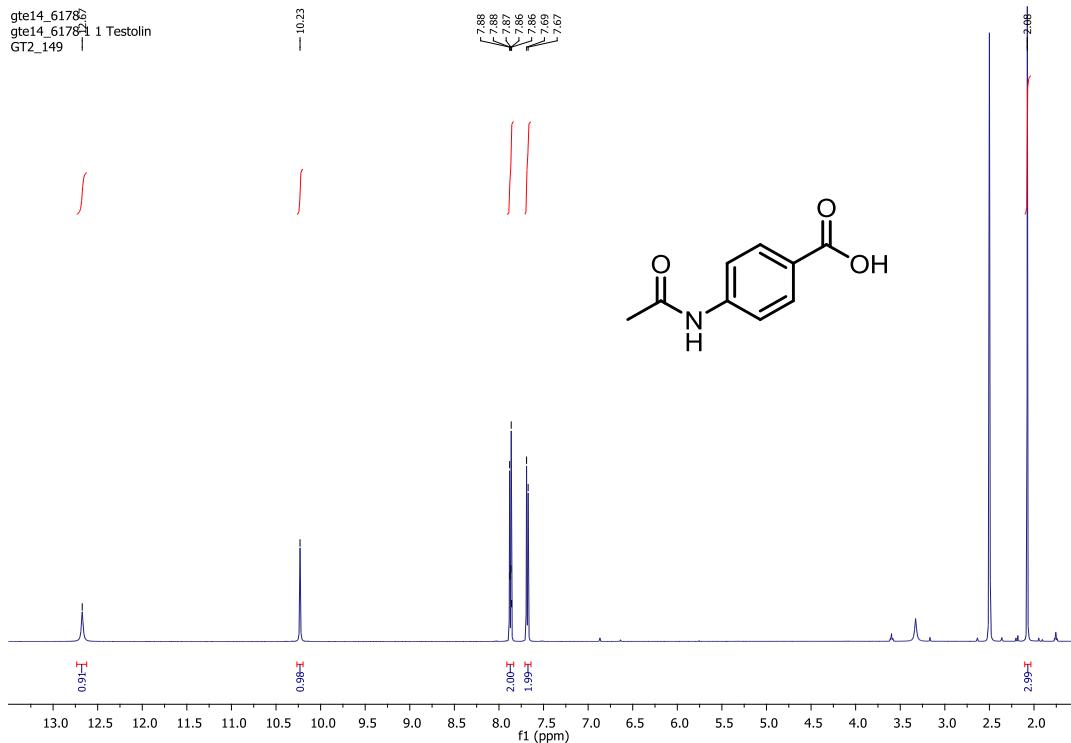
CBCS5584
CBCS5584 1 1 Testolin
MS 10



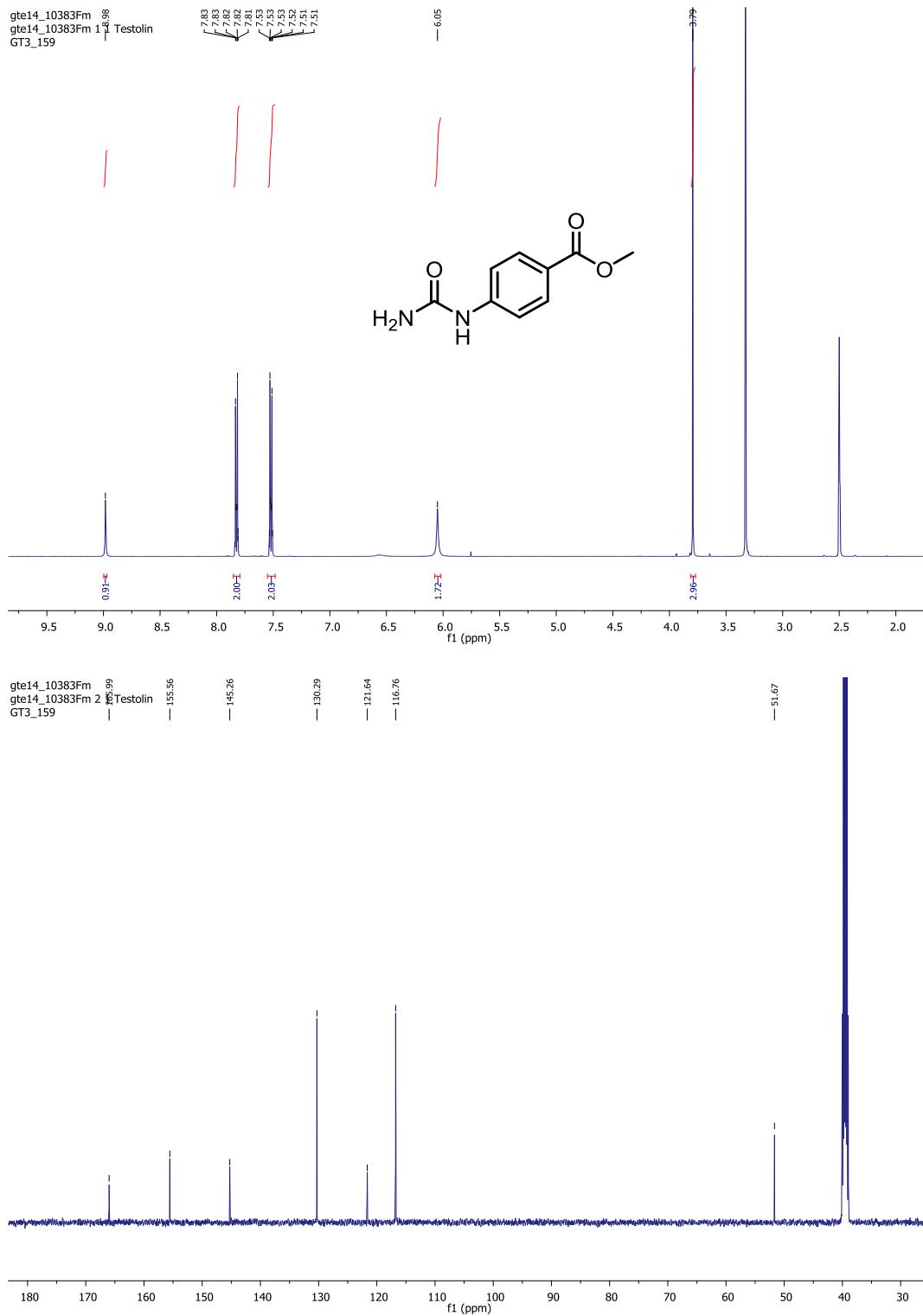
CBCS5584
CBCS5584 2 1 Testol
MS_10



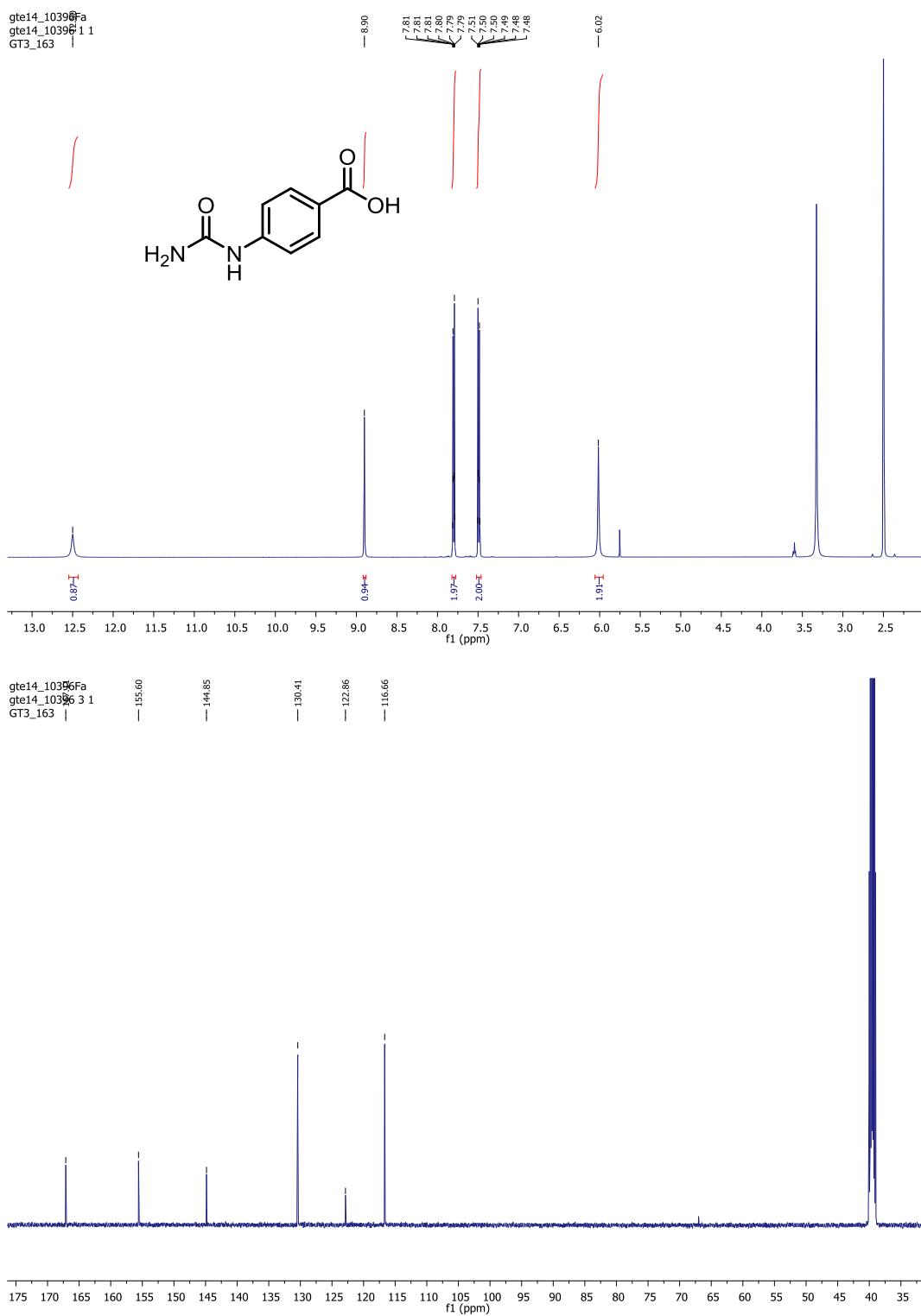
4-Acetamidobenzoic acid



Methyl 4-ureidobenzoate



4-Ureidobenzoic acid

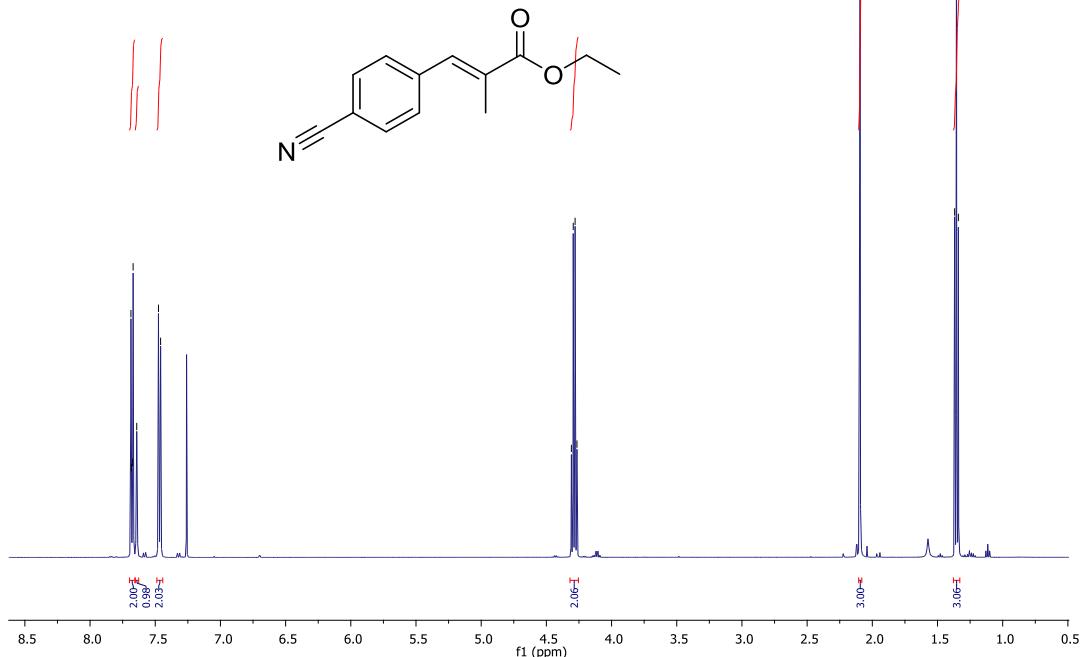


Ethyl (E)-3-(4-cyanophenyl)-2-methylacrylate

gte14_10601Fa
gte14_10601Fa
GT3_199 A

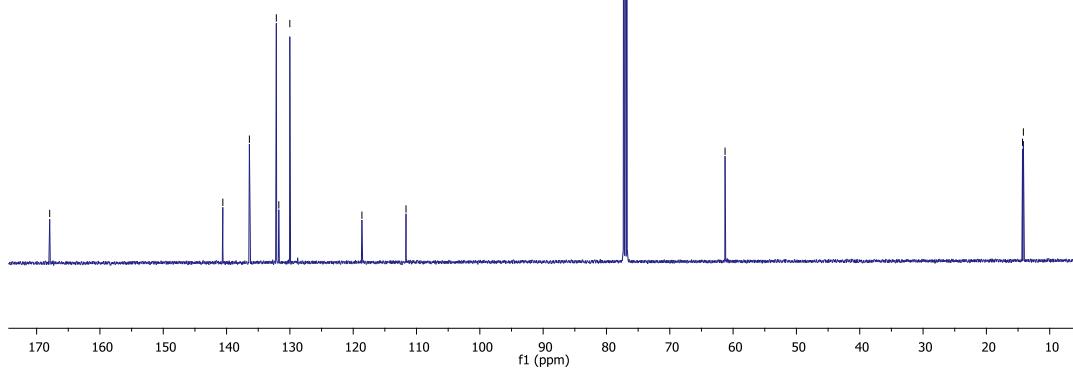
4.31
4.29
4.28
4.27

2.10
2.09
1.37
1.35
1.34



gte14²_10601Fa
gte14²_10601Fa 2 1
GT3_199 A

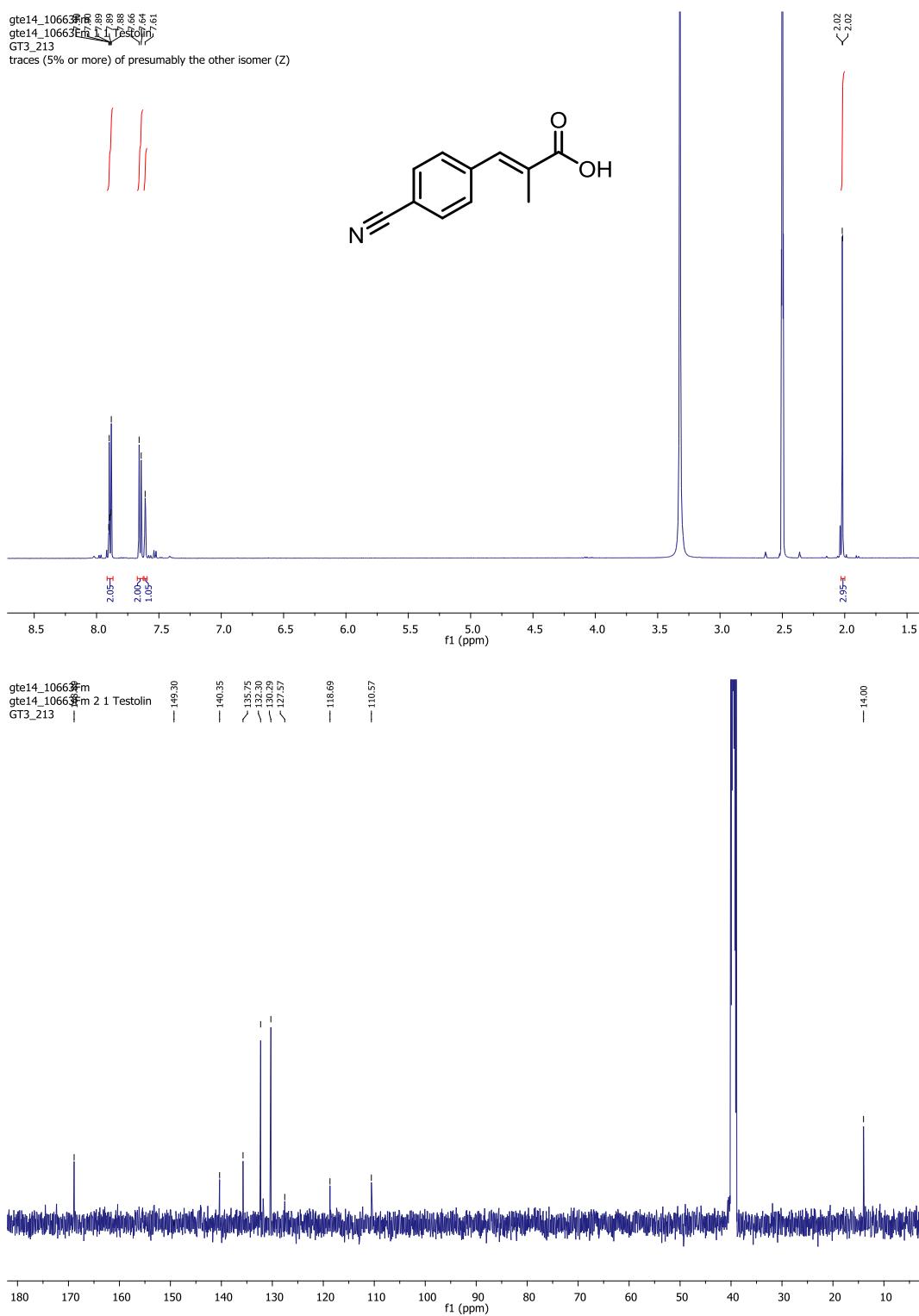
— 140.59
— 136.40
— 132.14
— 131.75
— 130.01
— 118.62
— 111.66
— 65.27
— 14.29
— 14.16



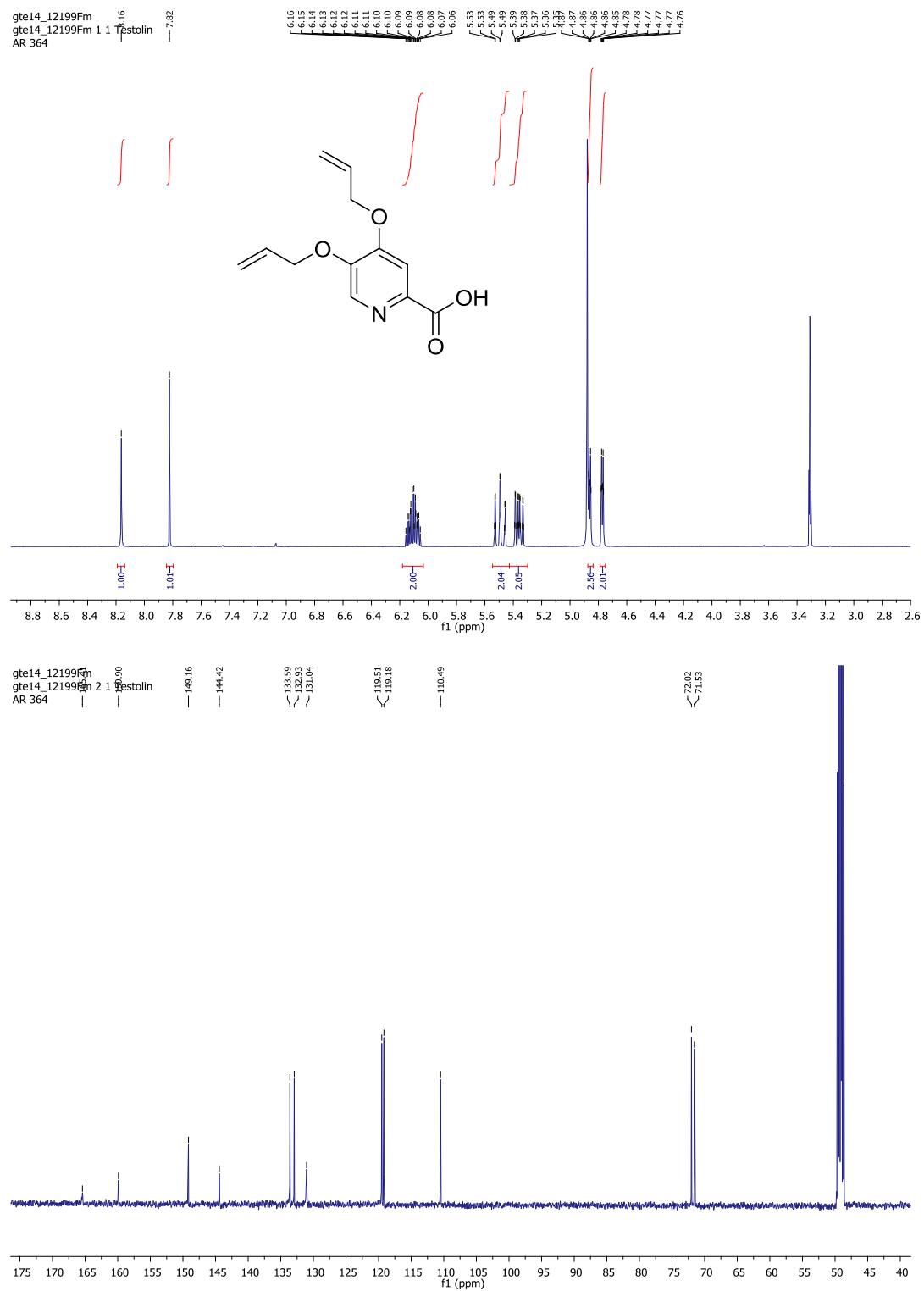
(E)-3-(4-Cyanophenyl)-2-methylacrylic acid

gte14_10663.m
gte14_10663.m 2 1 Testolin
GT3_213

traces (5% or more) of presumably the other isomer (Z)

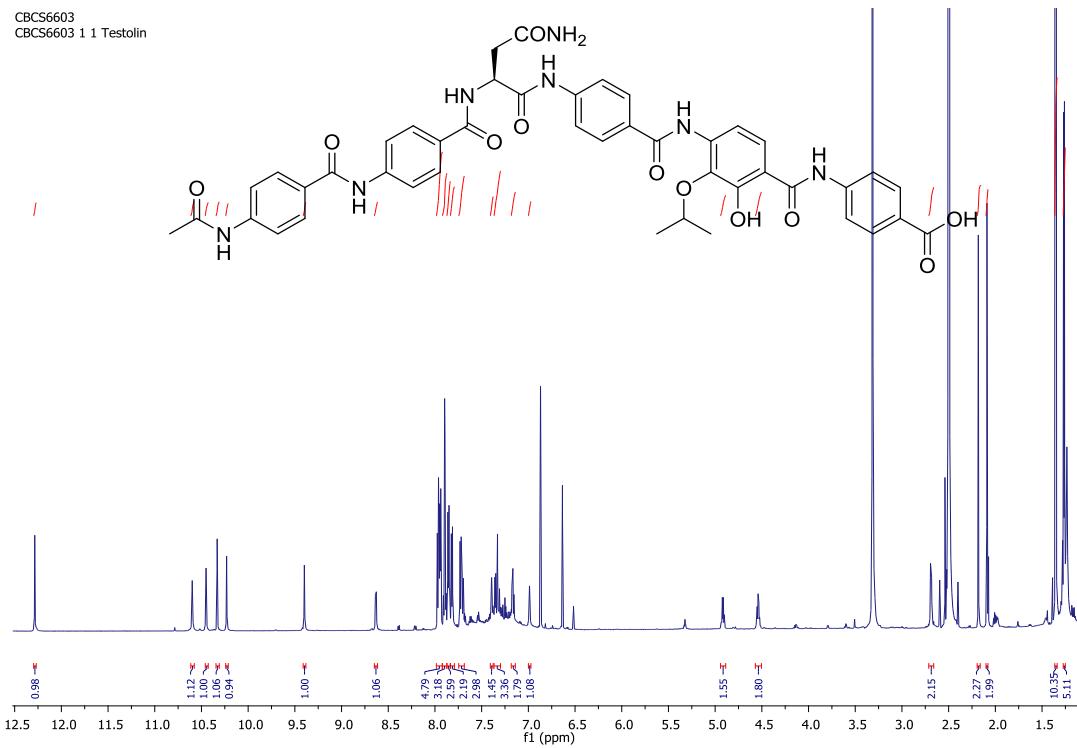


4,5-Bis(allyloxy)picolinic acid

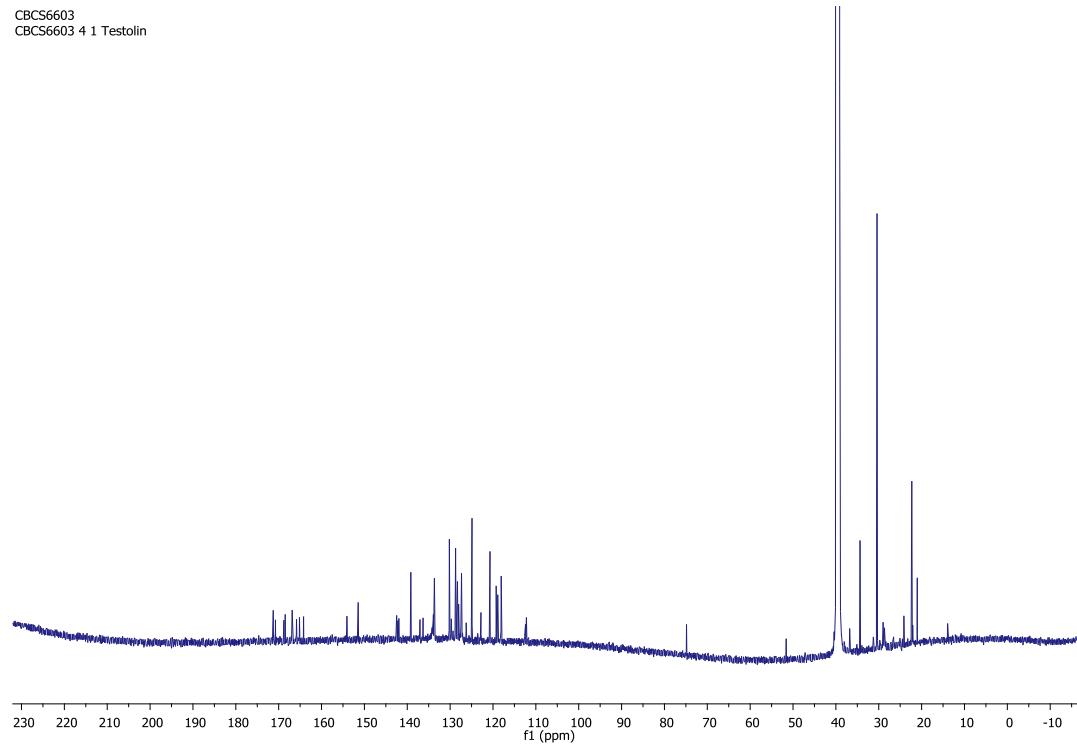


(S)-4-(4-(4-(4-Acetamidobenzamido)benzamido)-4-amino-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid

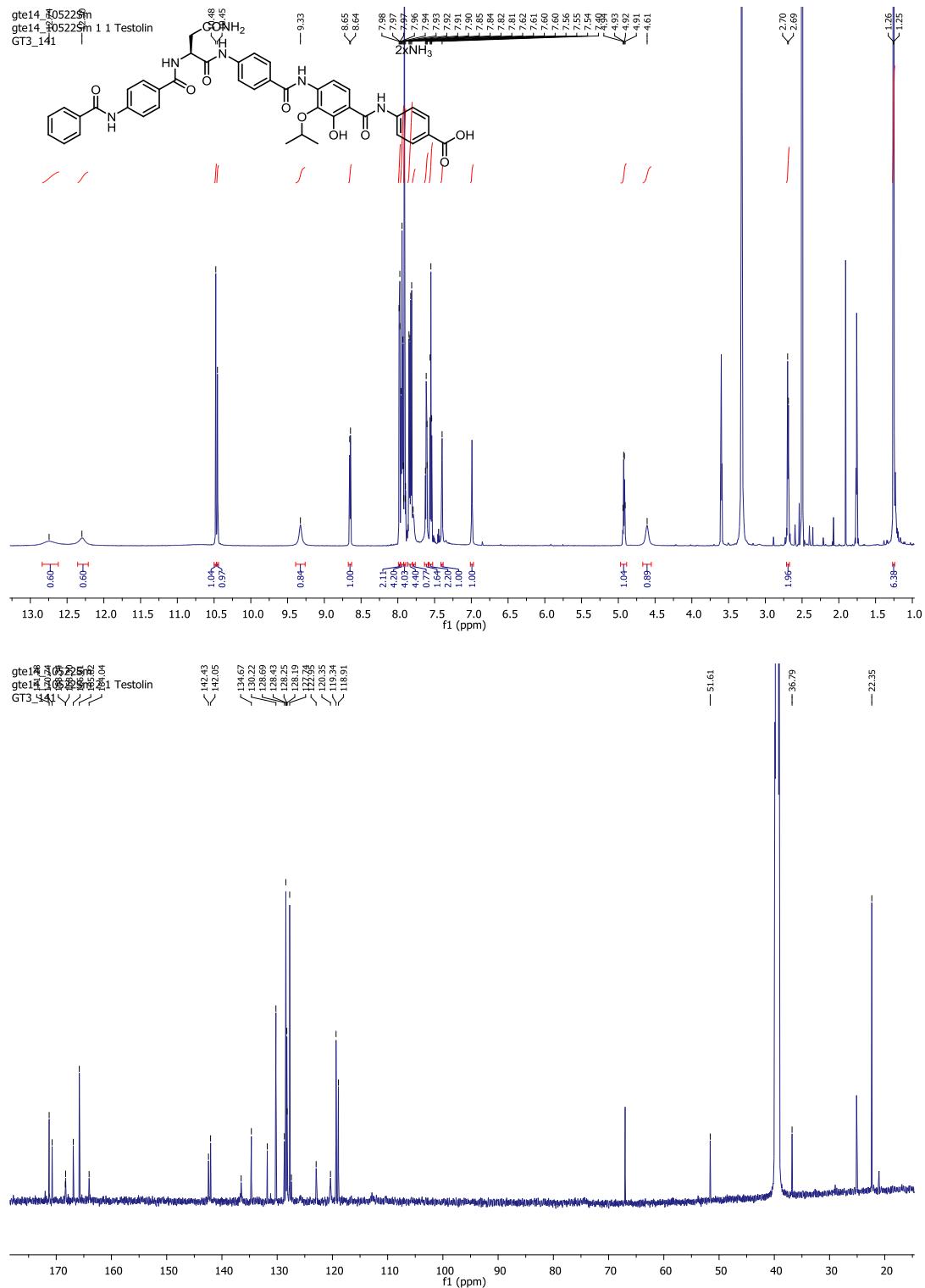
CBCS6603
CBCS6603 1 1 Testolin



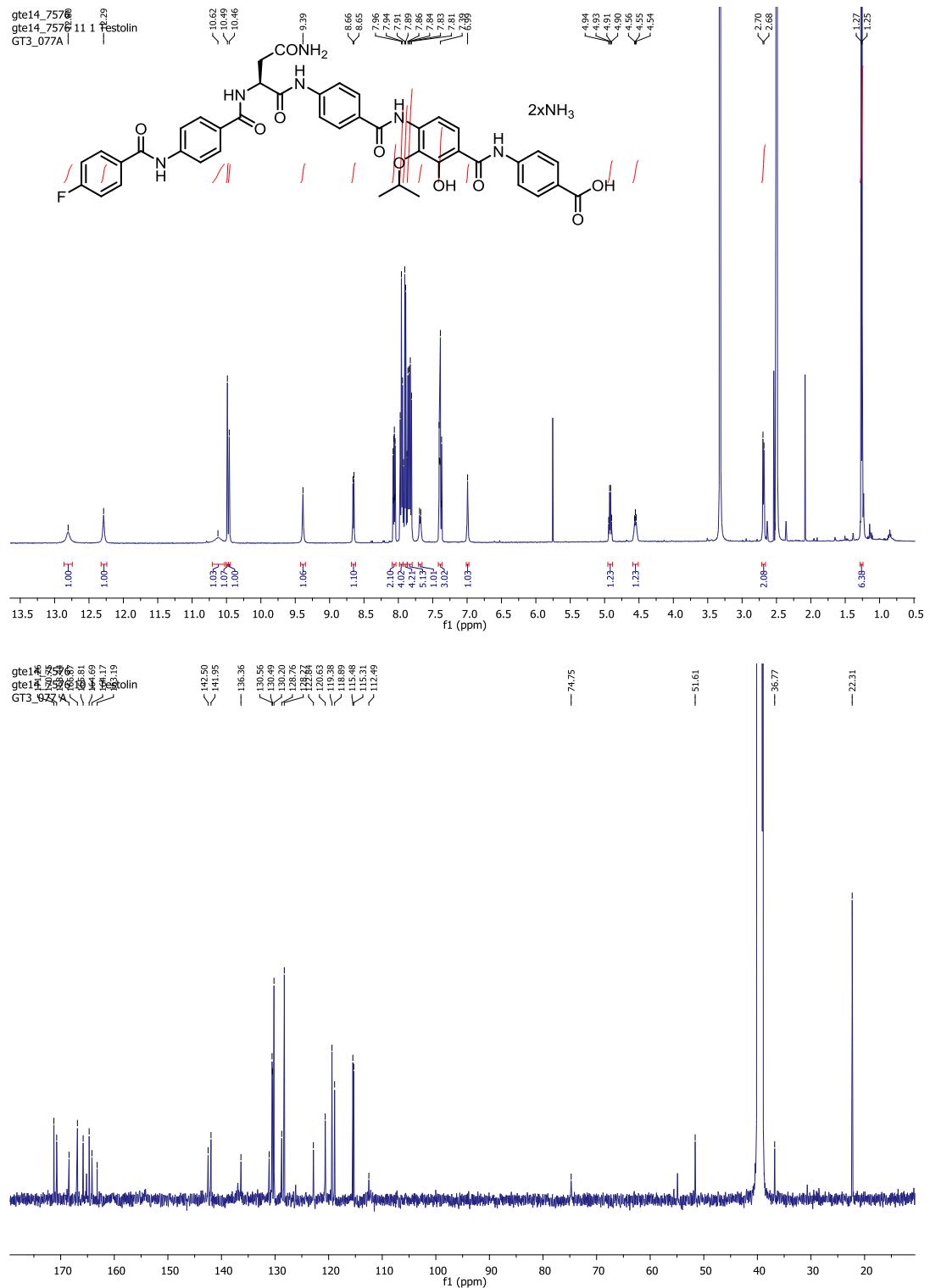
CBCS6603
CBCS6603 4 1 Testolin



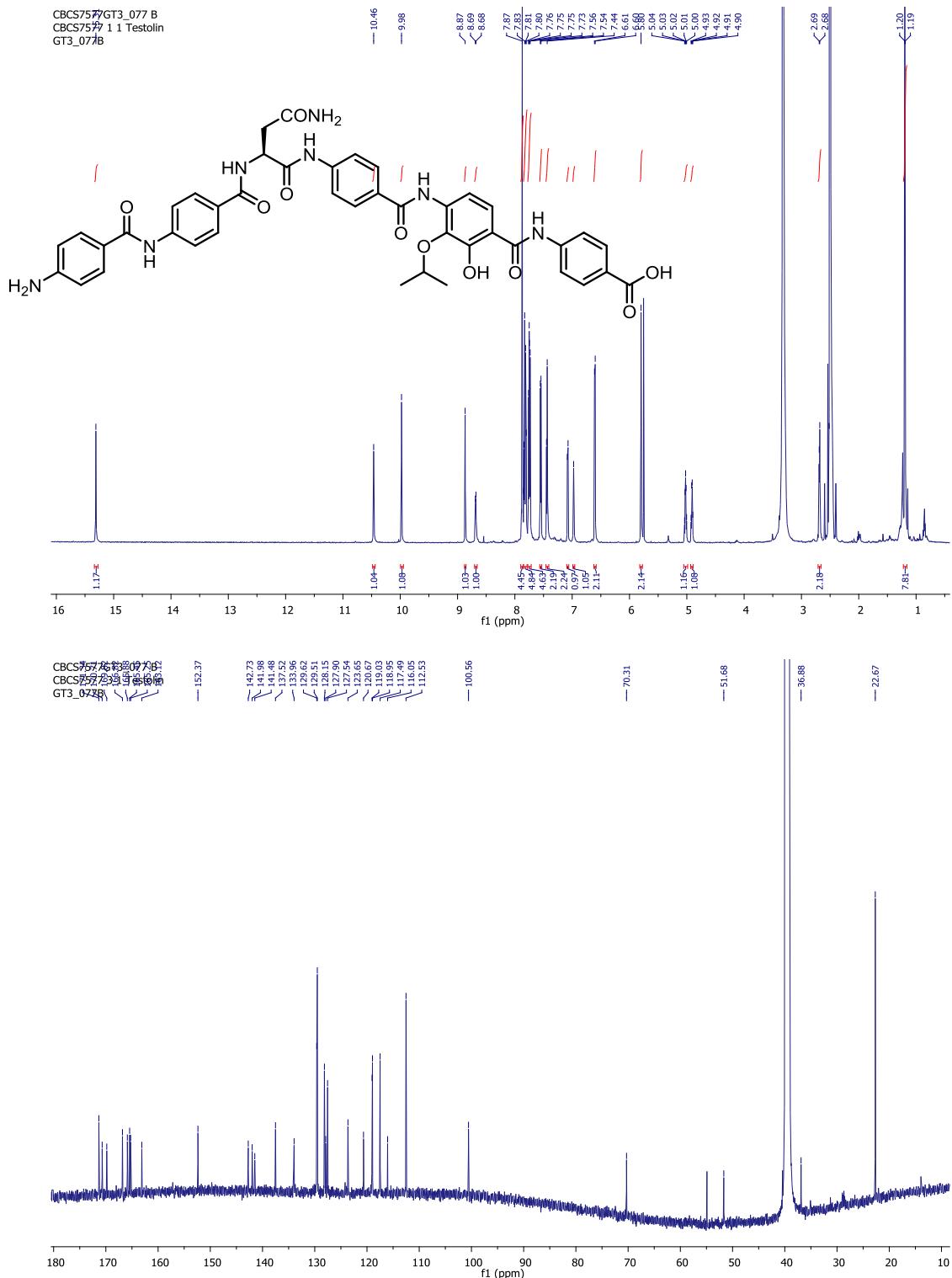
(S)-4-(4-(4-Amino-2-(4-benzamidobenzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid



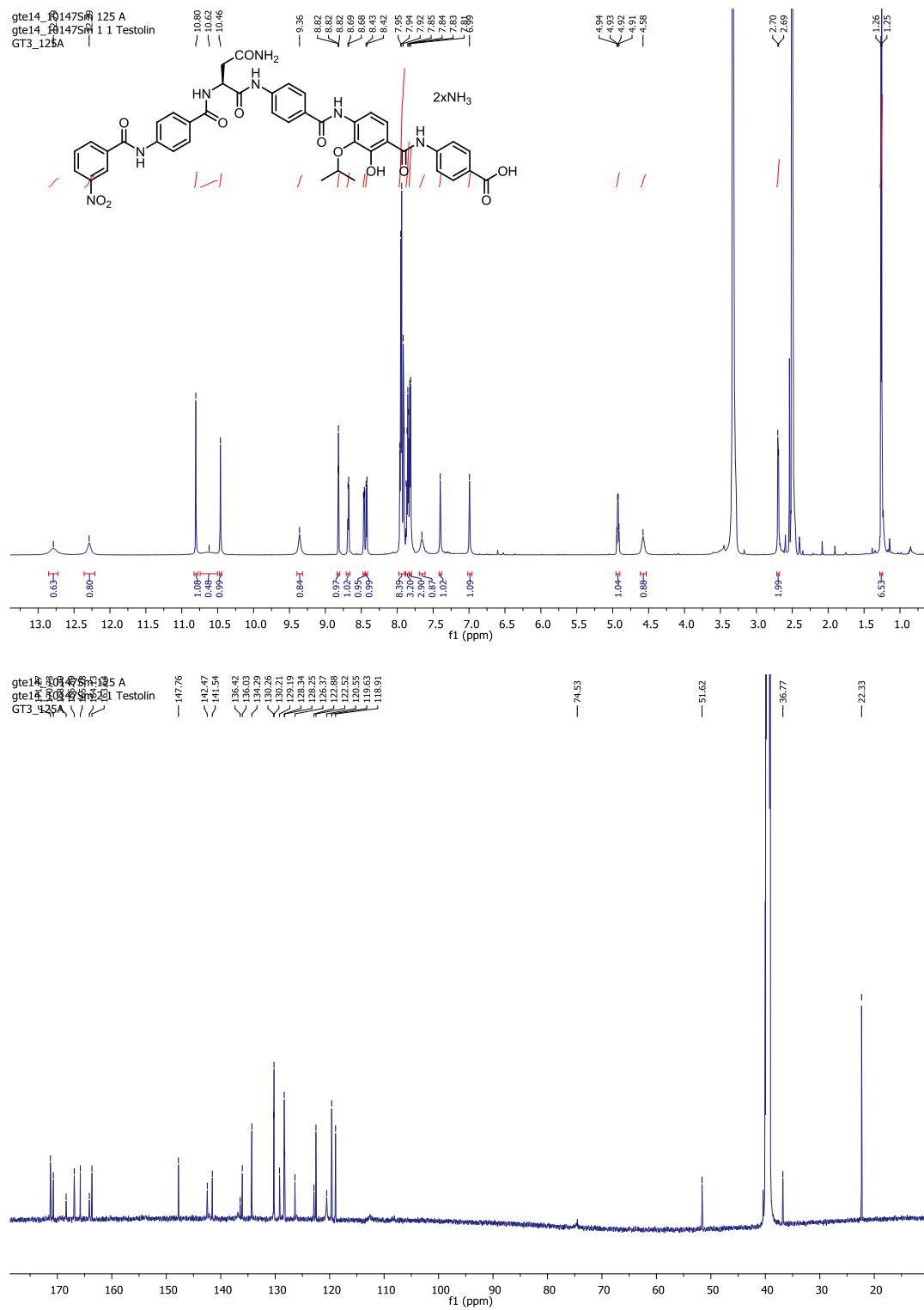
(S)-4-(4-(4-Amino-2-(4-(4-fluorobenzamido)benzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid



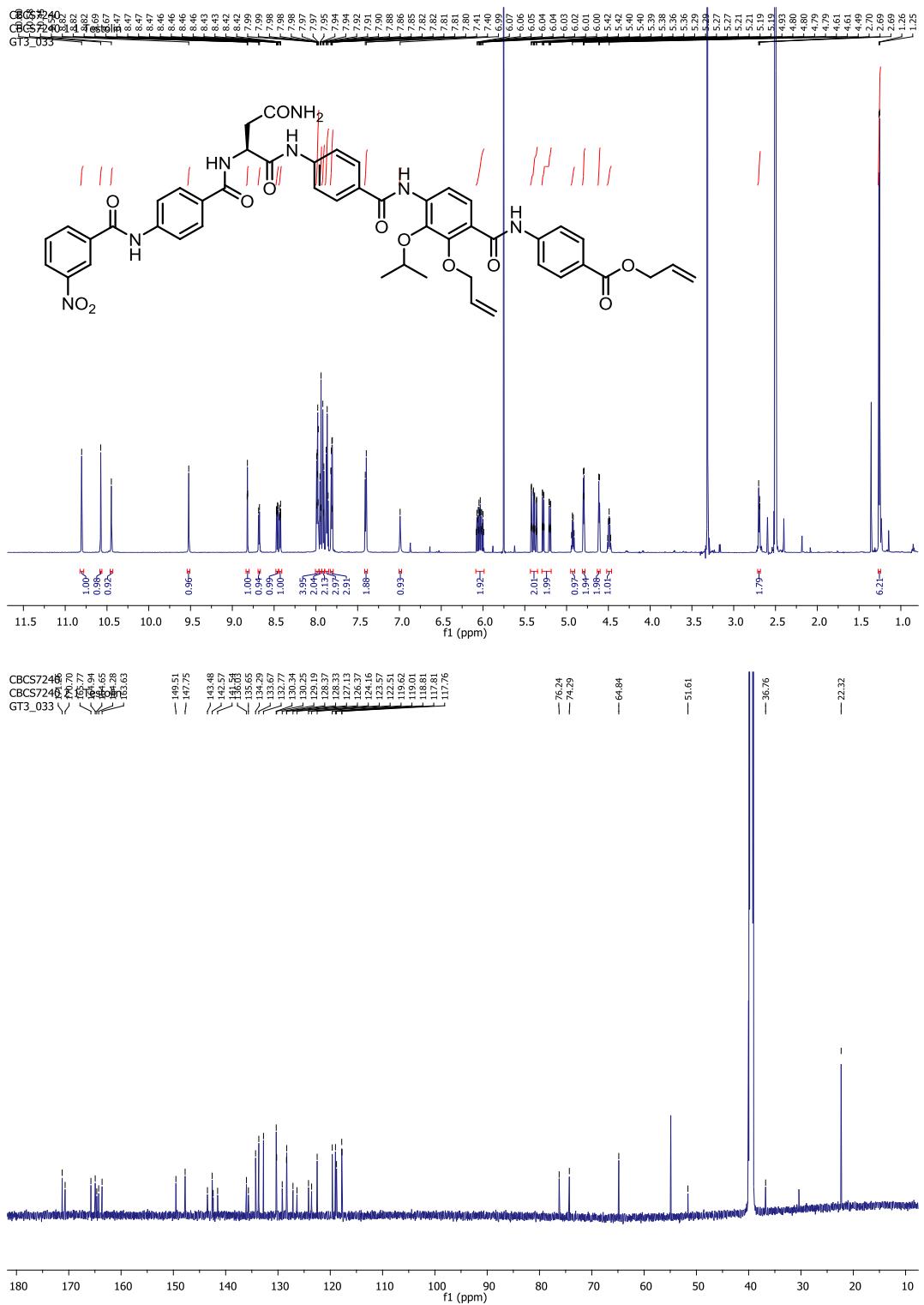
(S)-4-(4-(4-Amino-2-(4-(4-aminobenzamido)benzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid



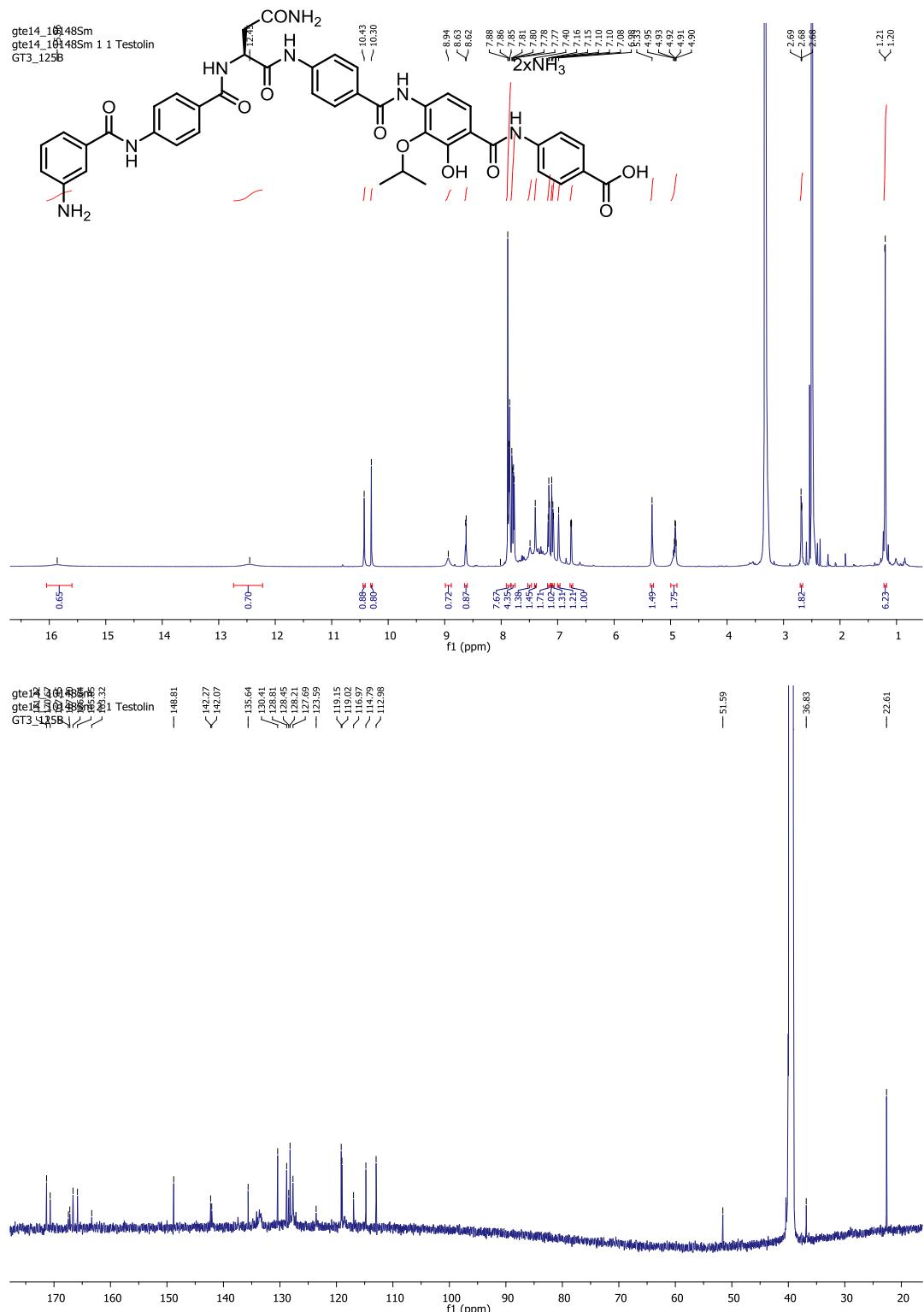
(S)-4-(4-(4-Amino-2-(4-(3-nitrobenzamido)benzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid



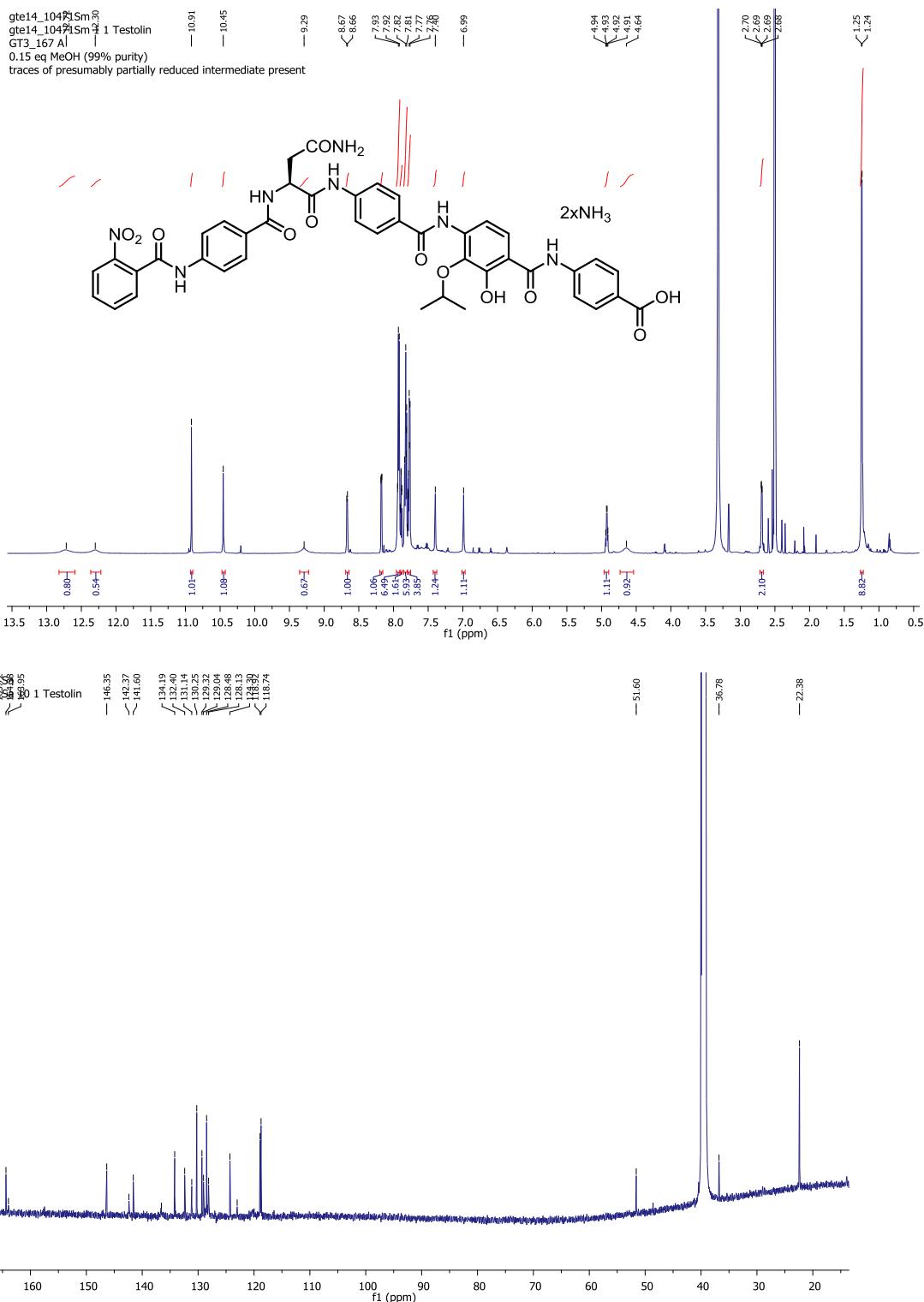
Allyl protected intermediate:



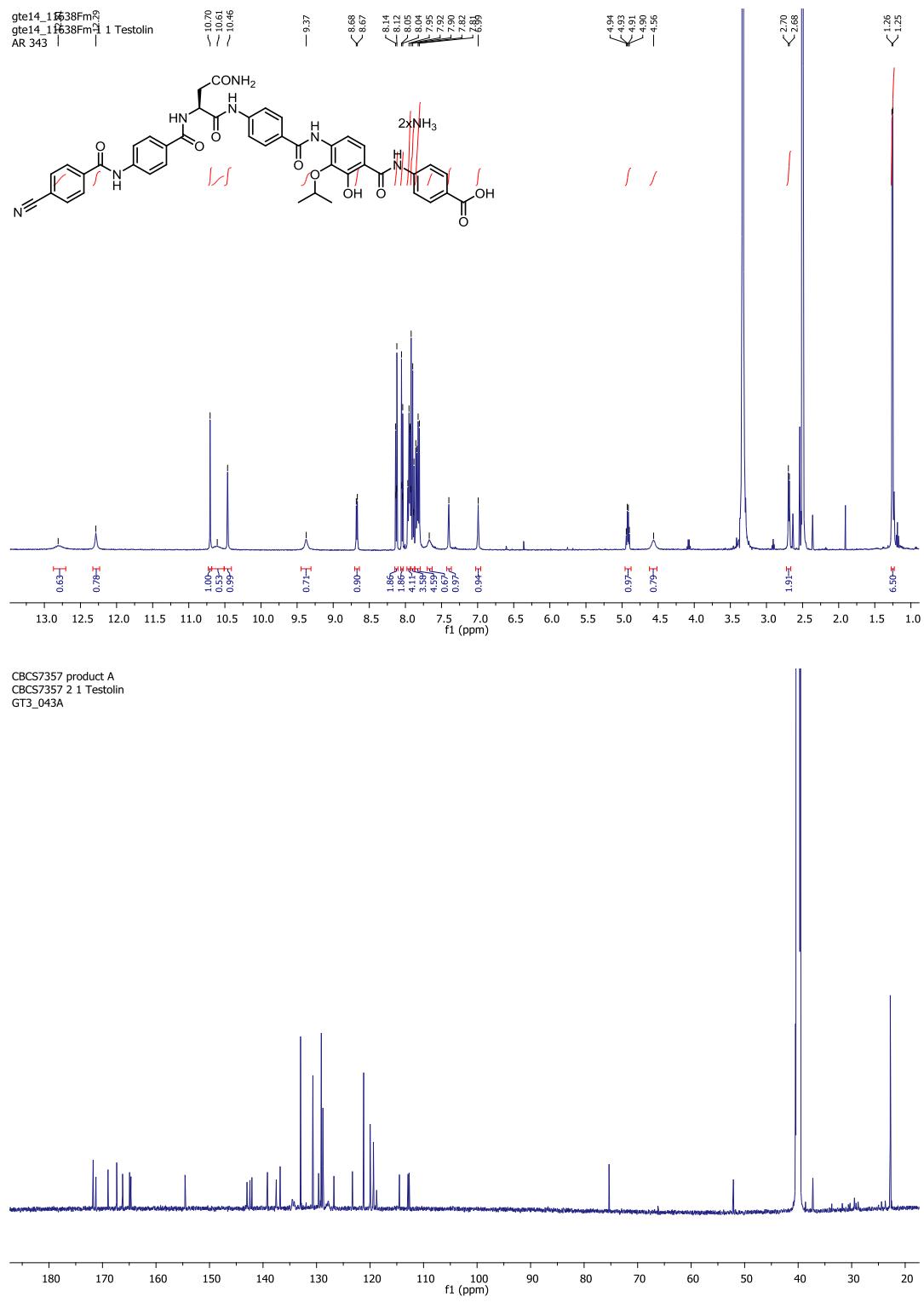
(S)-4-(4-(4-Amino-2-(4-(3-aminobenzamido)benzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid



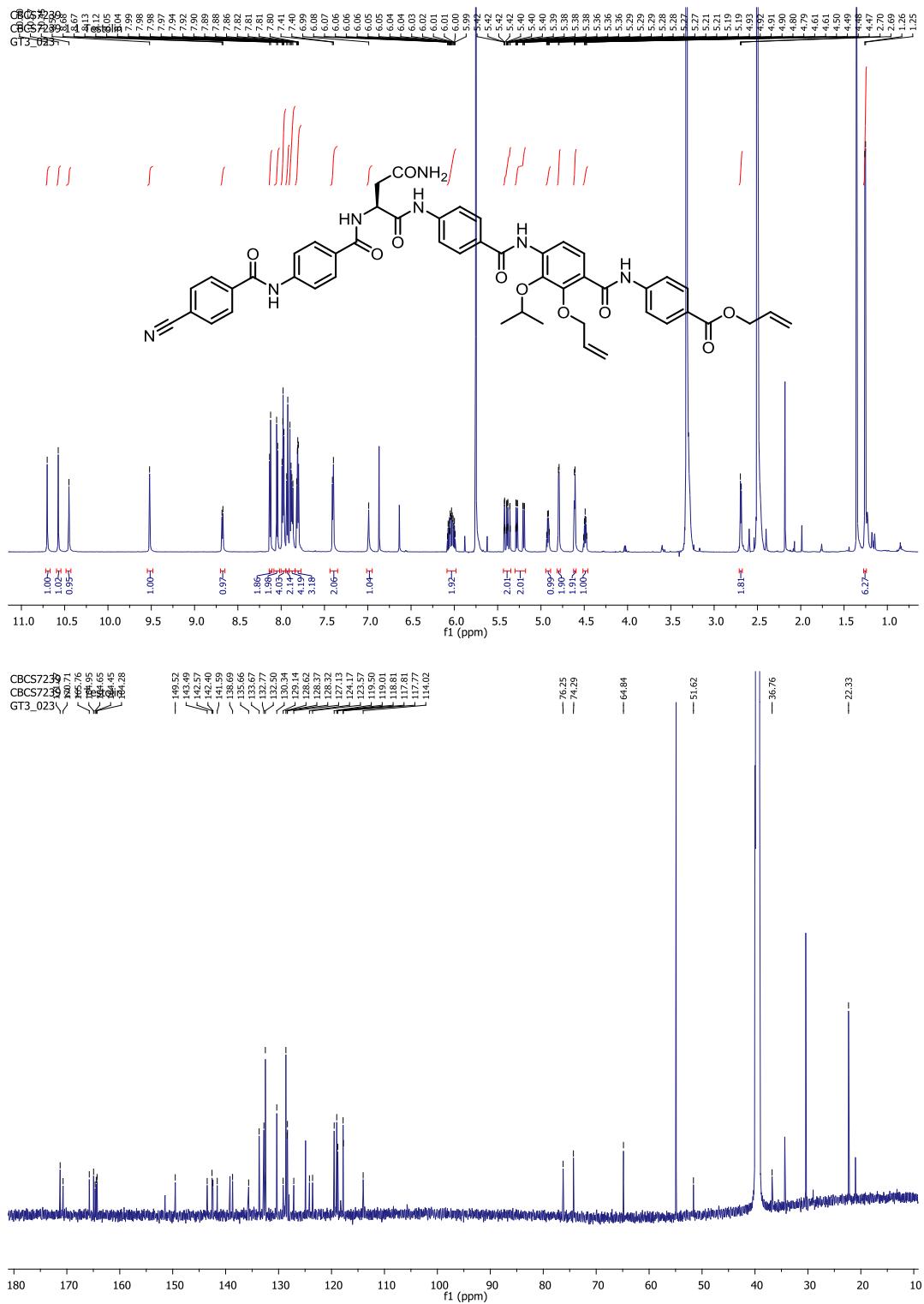
(S)-4-(4-(4-Amino-2-(4-(2-nitrobenzamido)benzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid



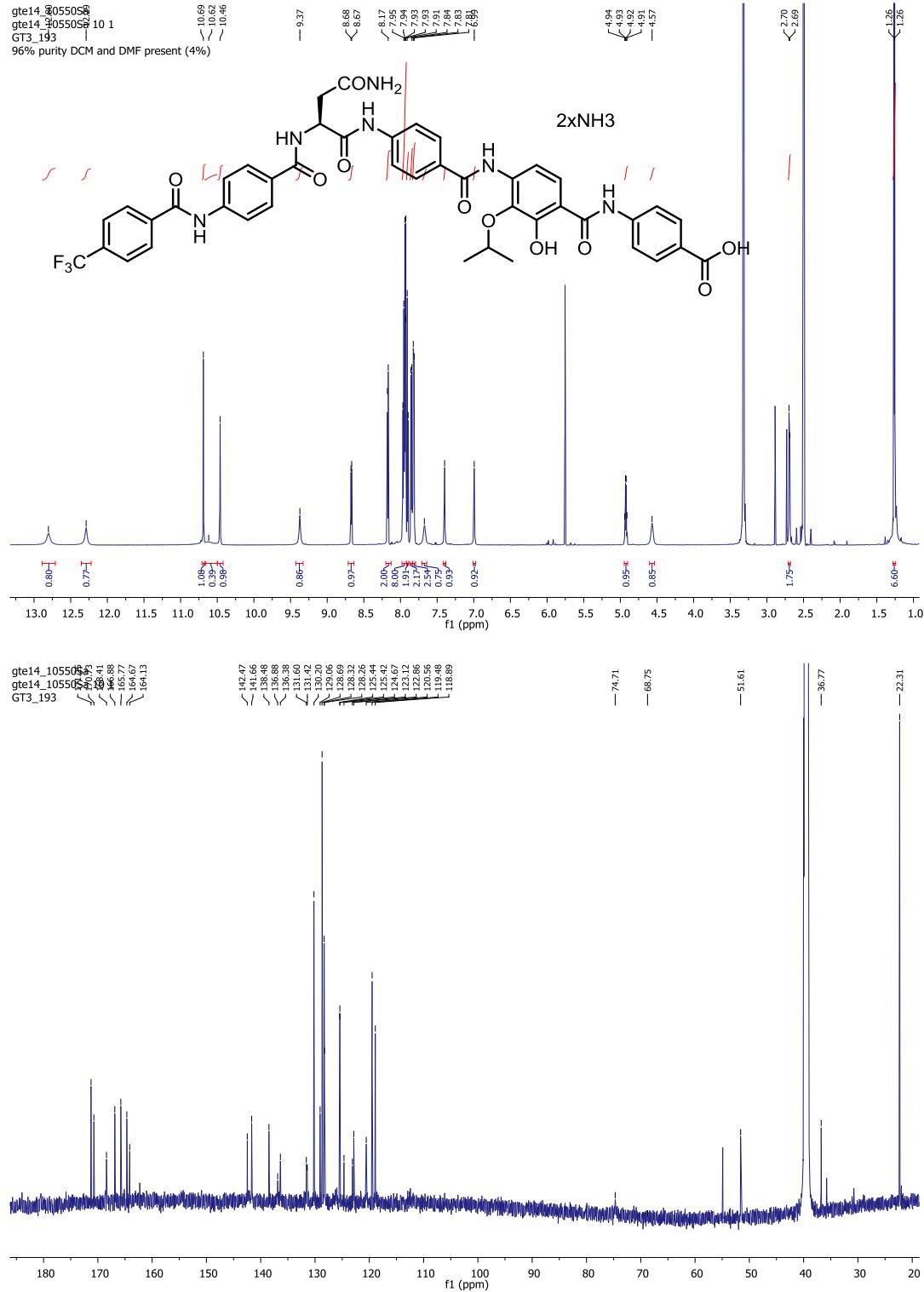
(S)-4-(4-(4-Amino-2-(4-(4-cyanobenzamido)benzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid



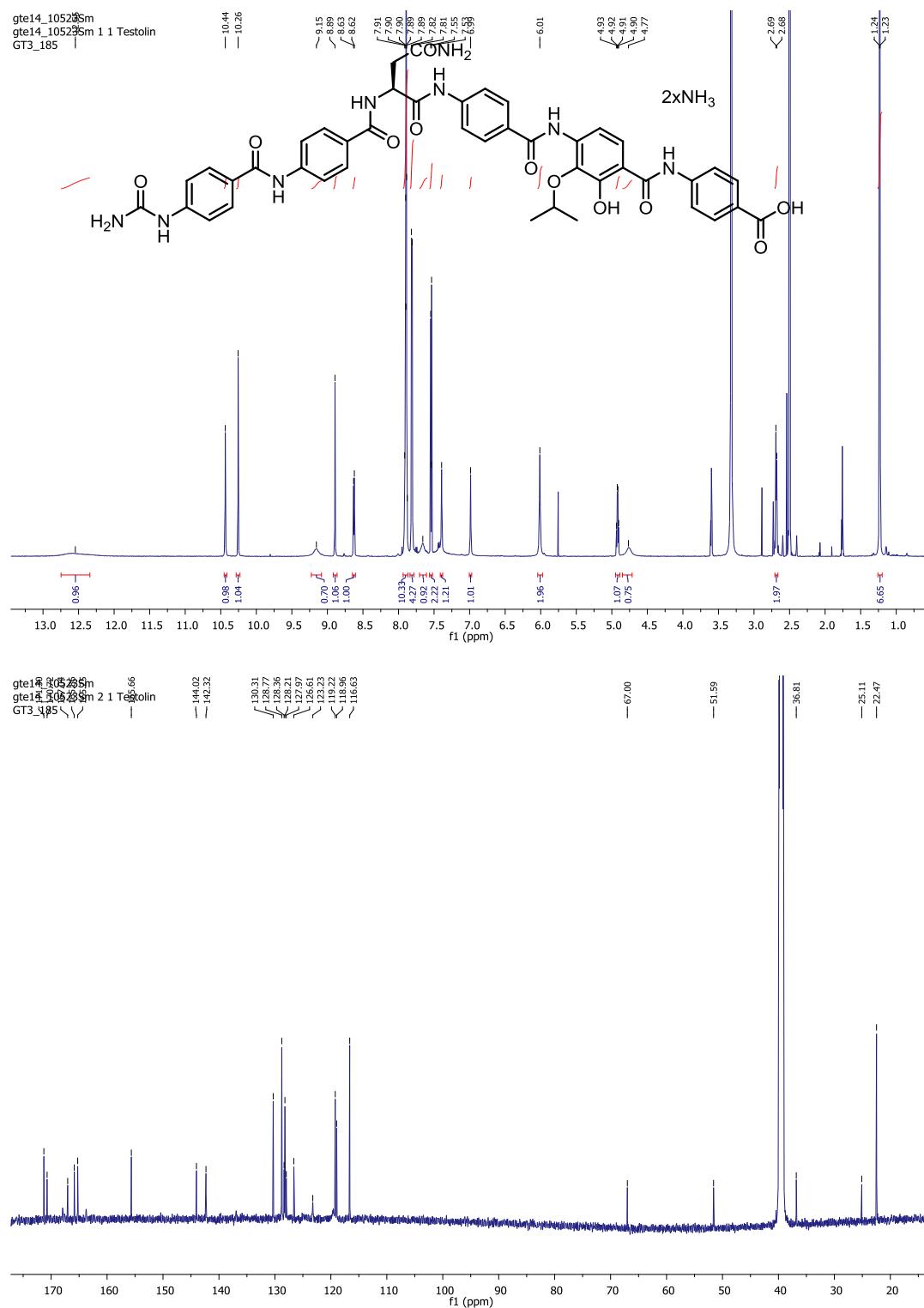
Allyl protected intermediate:



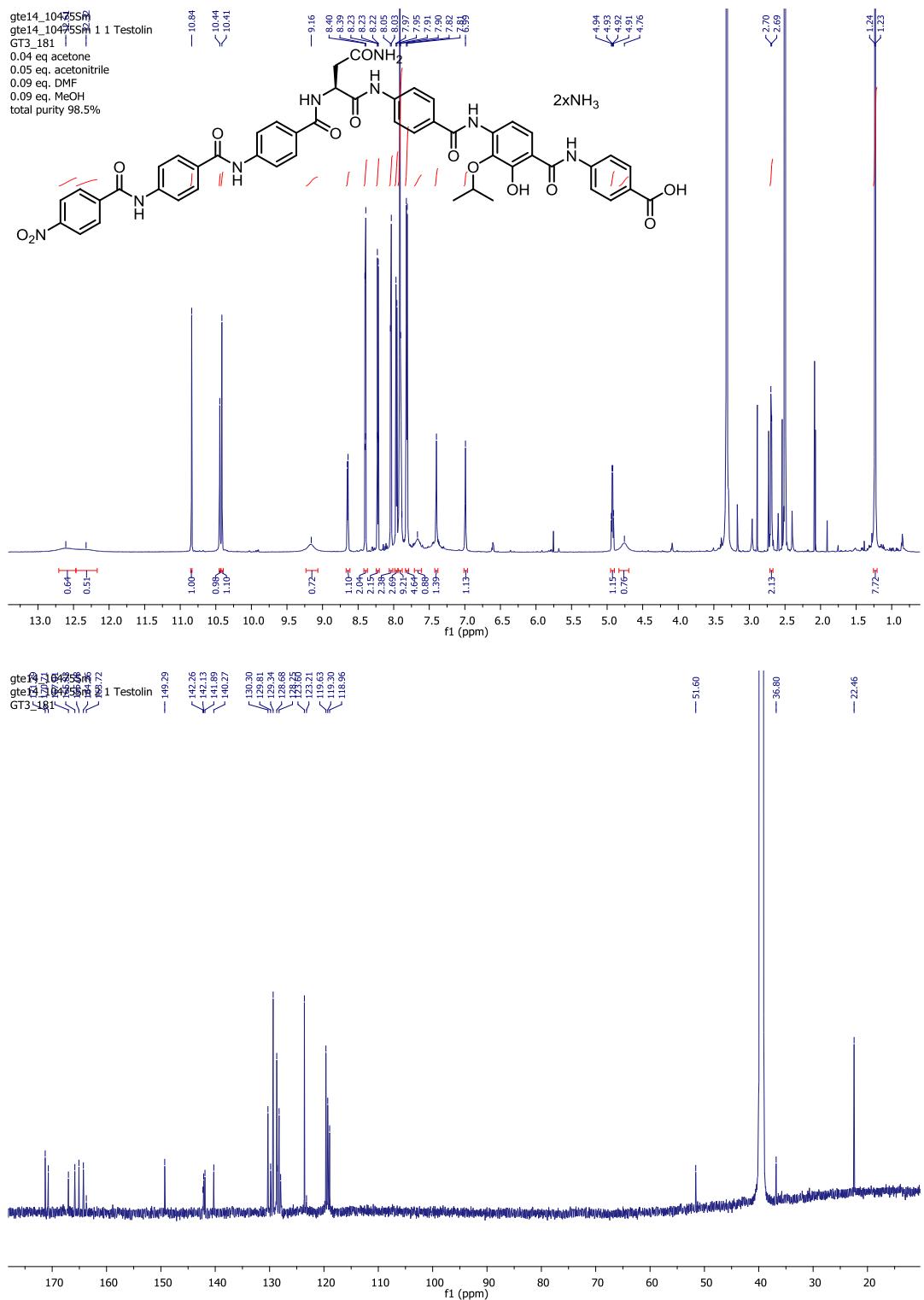
(S)-4-(4-(4-Amino-4-oxo-2-(4-(4-(trifluoromethyl)benzamido)benzamido)butanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid



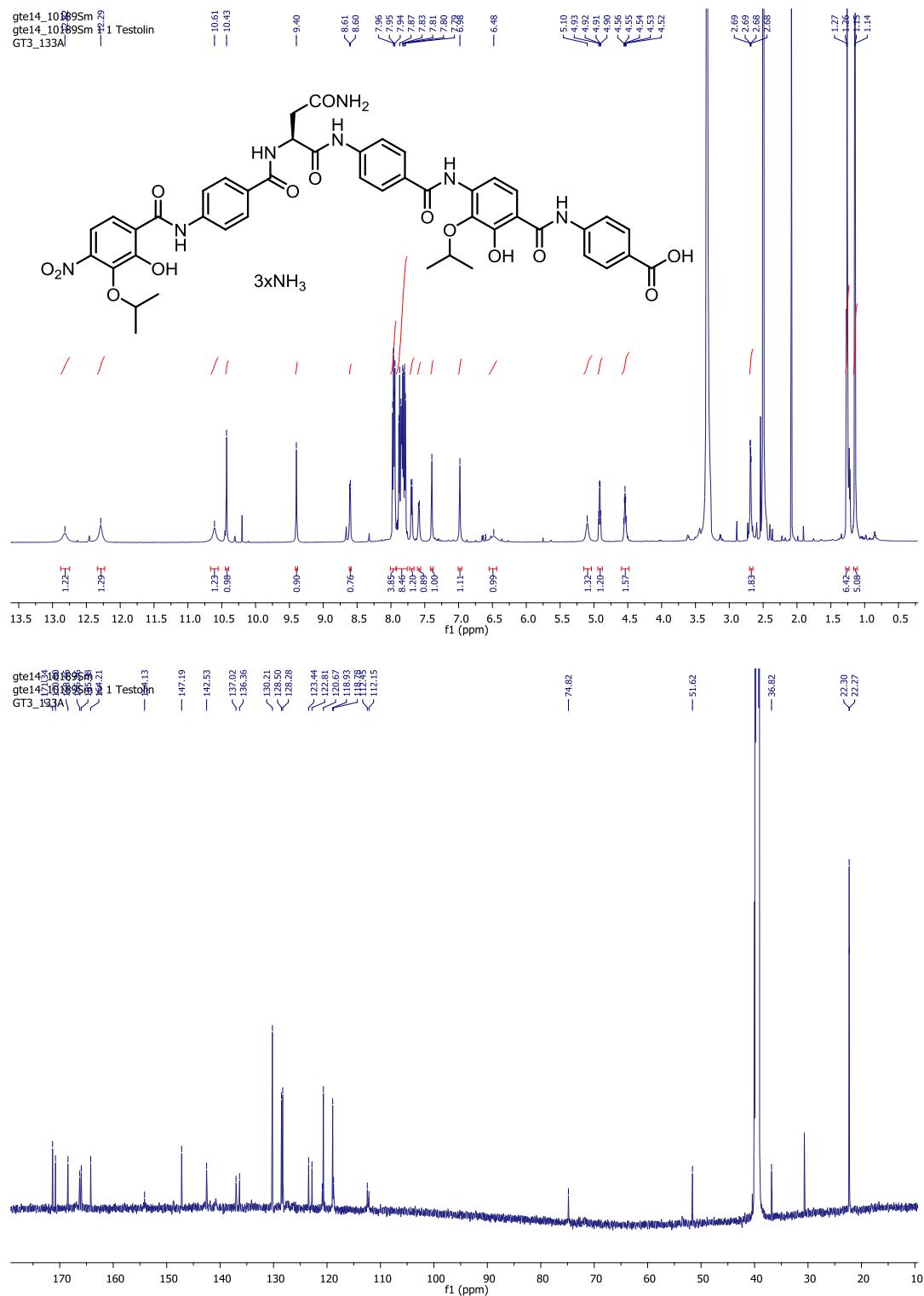
(S)-4-(4-(4-Amino-4-oxo-2-(4-(4-ureidobenzamido)benzamido)butanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid



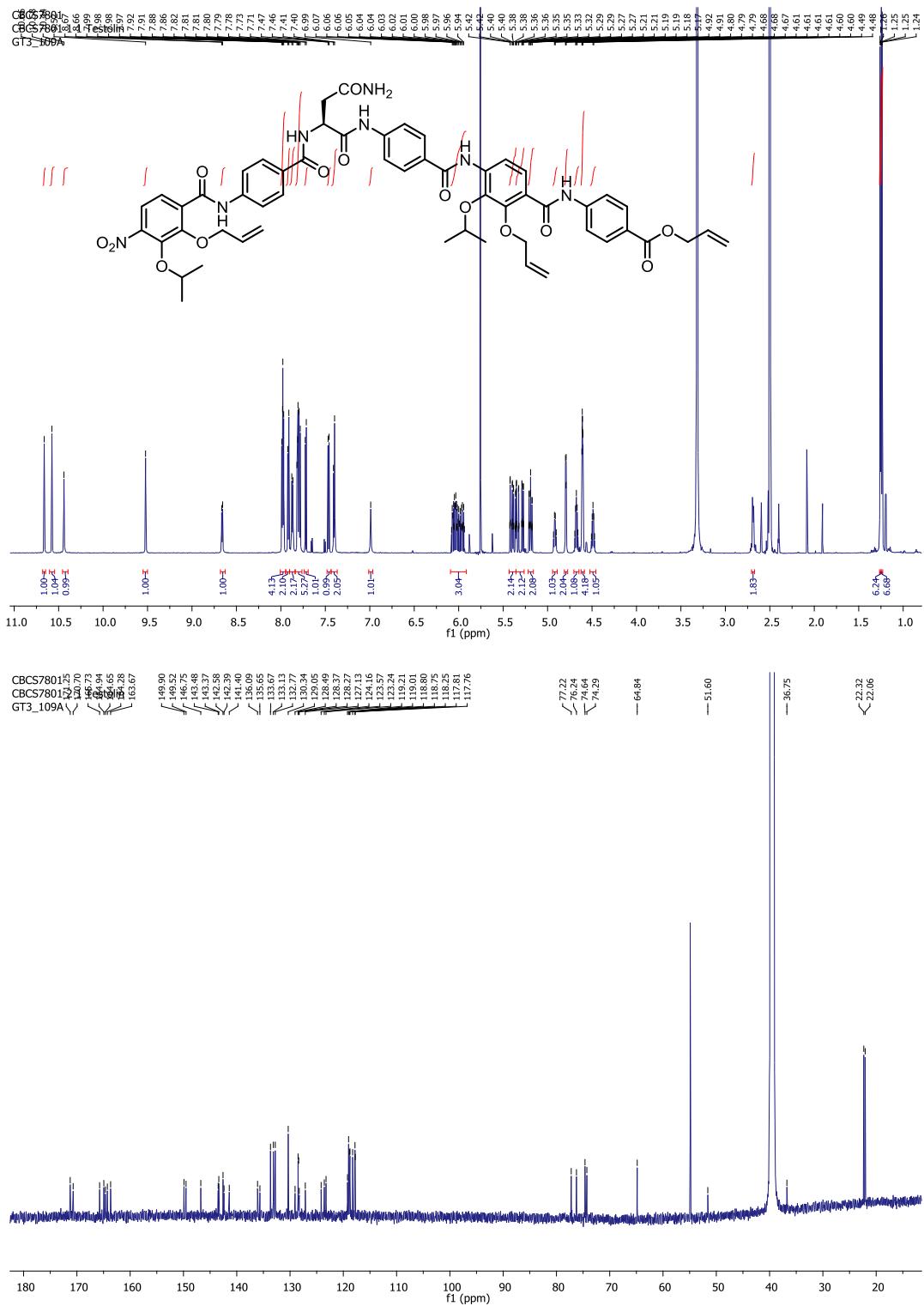
(S)-4-(4-(4-Amino-2-(4-(4-(4-nitrobenzamido)benzamido)benzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid



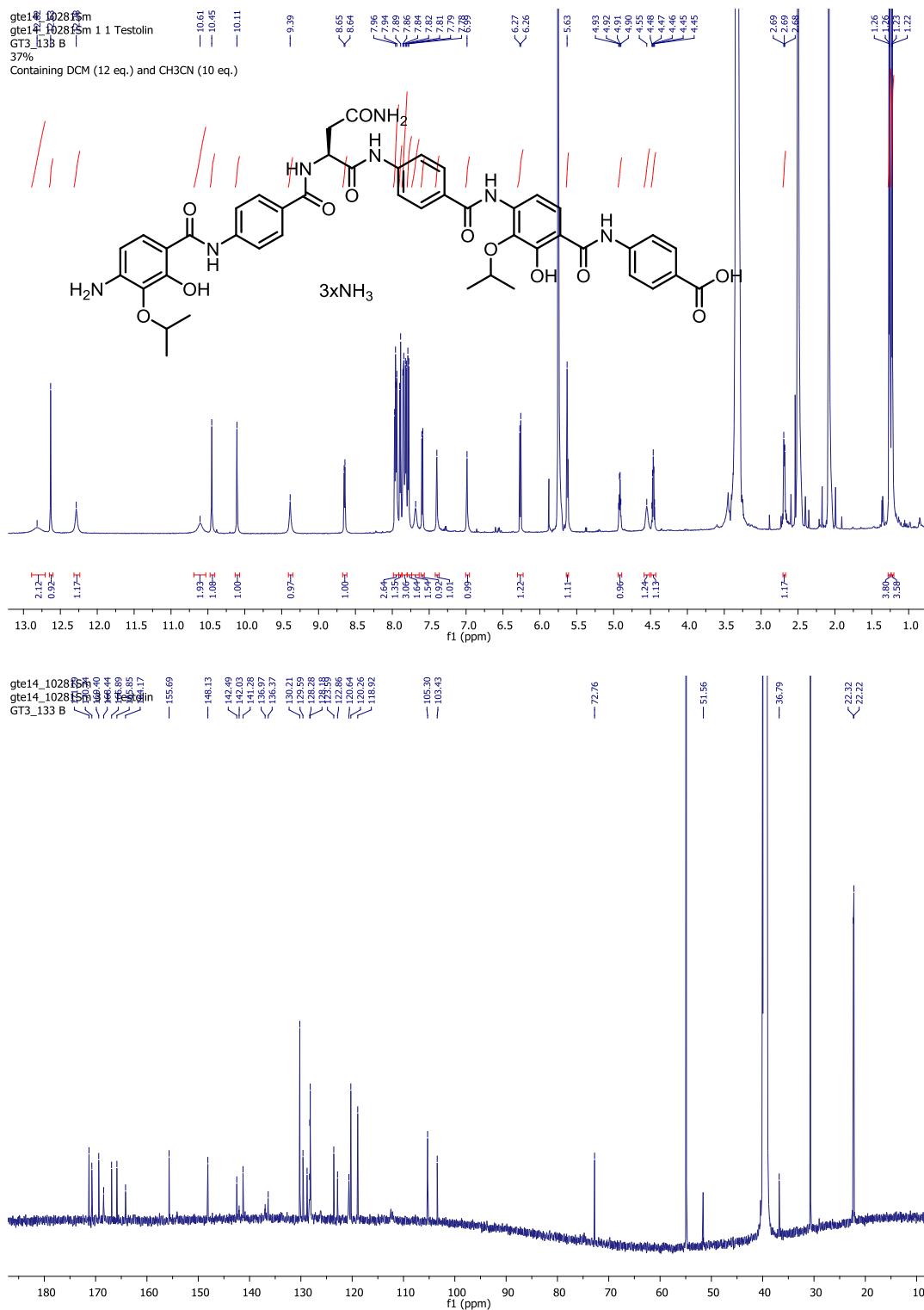
(S)-4-(4-(4-Amino-2-(4-(2-hydroxy-3-isopropoxy-4-nitrobenzamido)benzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid



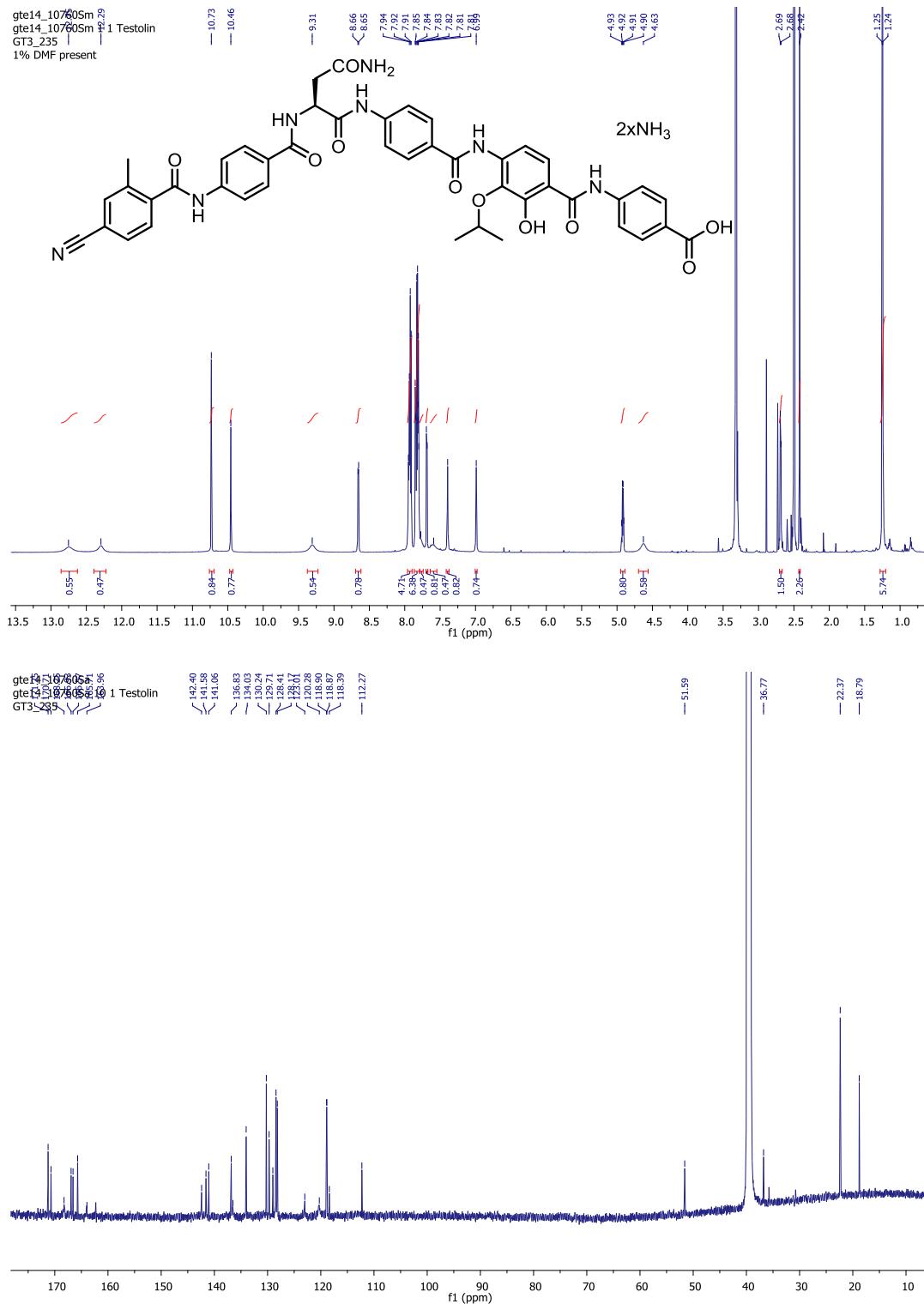
Allyl protected intermediate:



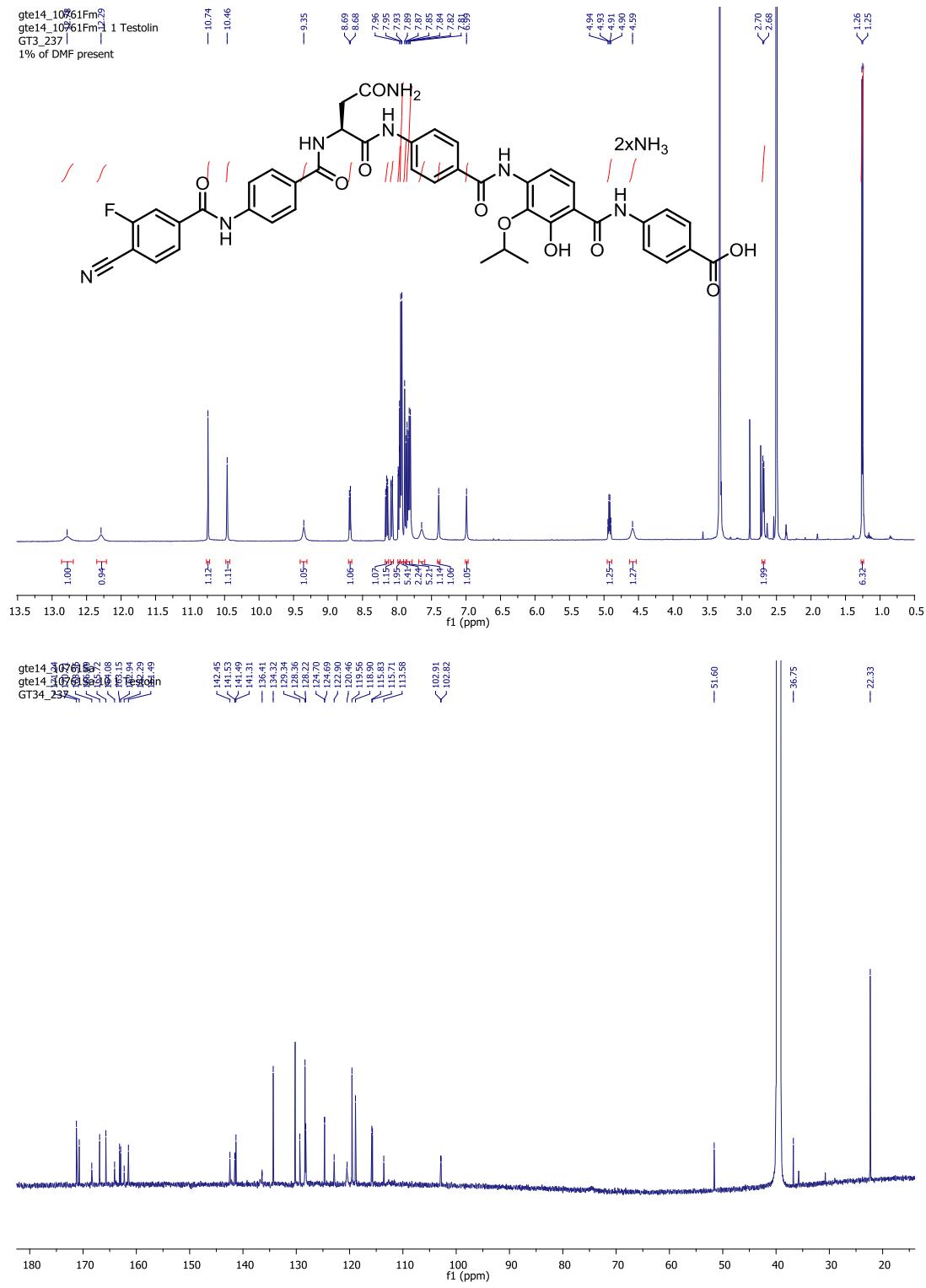
(S)-4-(4-(4-Amino-2-(4-(4-amino-2-hydroxy-3-isopropoxybenzamido)benzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid



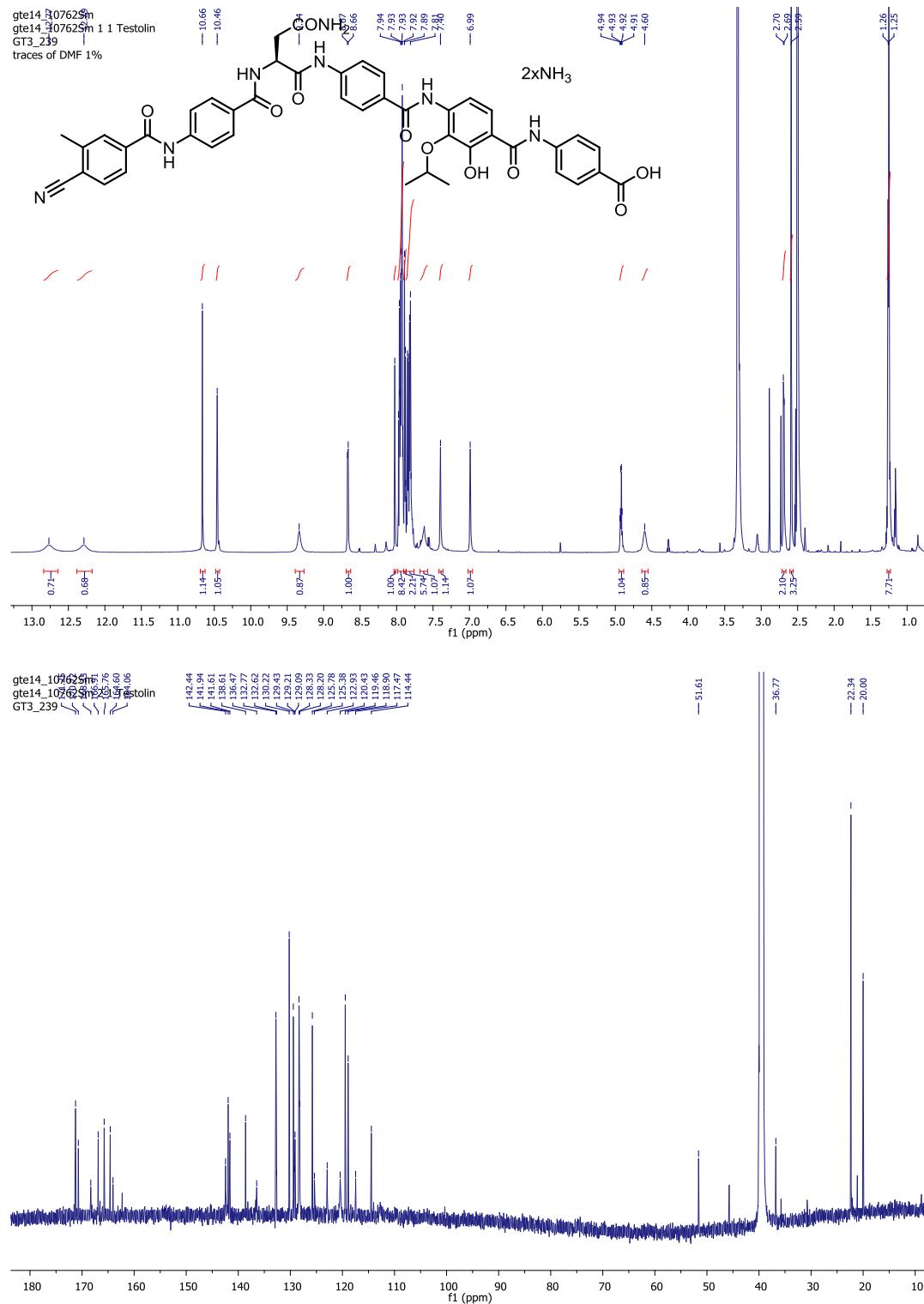
(S)-4-(4-(4-Amino-2-(4-(4-cyano-2-methylbenzamido)benzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid



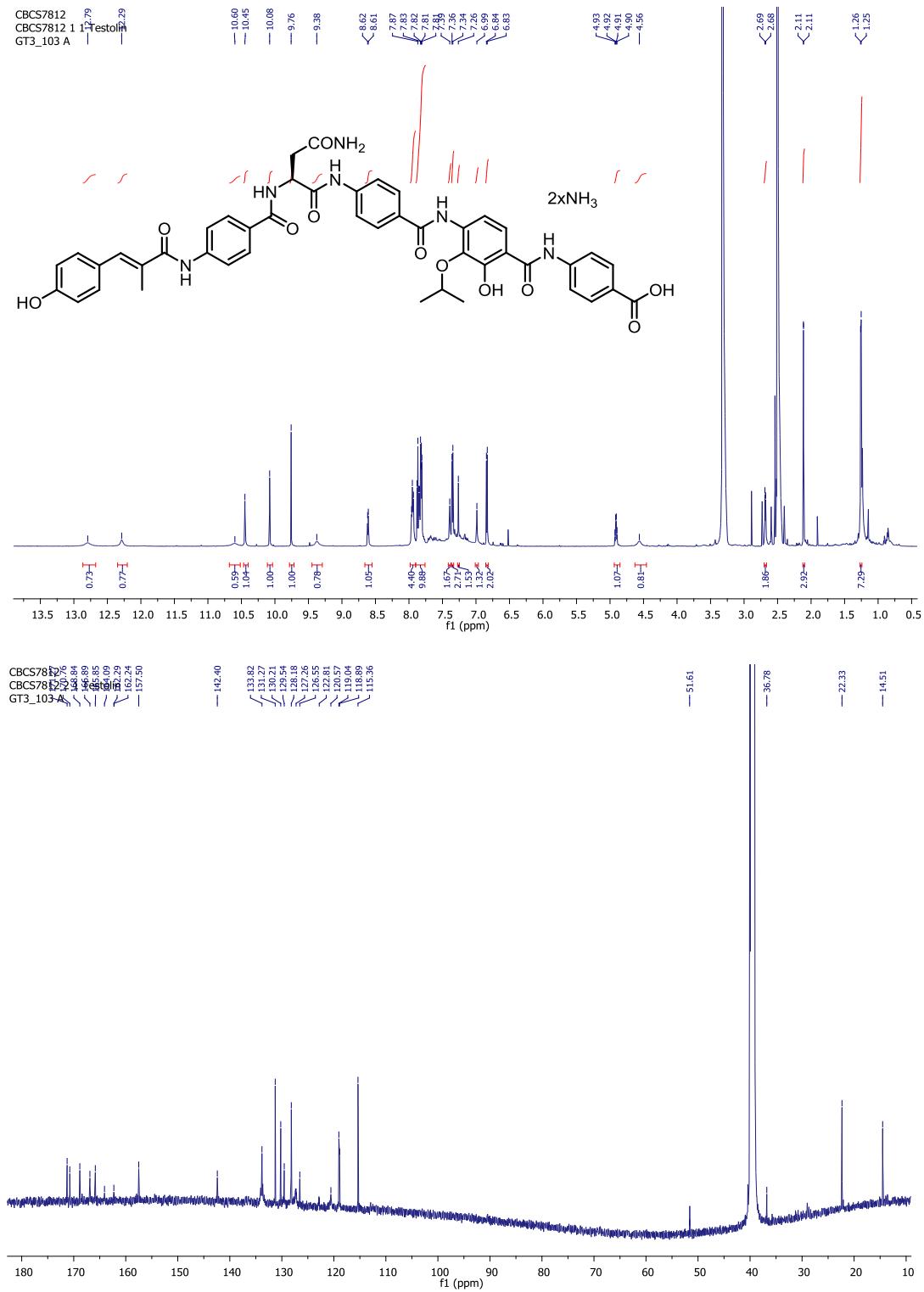
(S)-4-(4-(4-Amino-2-(4-(4-cyano-3-fluorobenzamido)benzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid



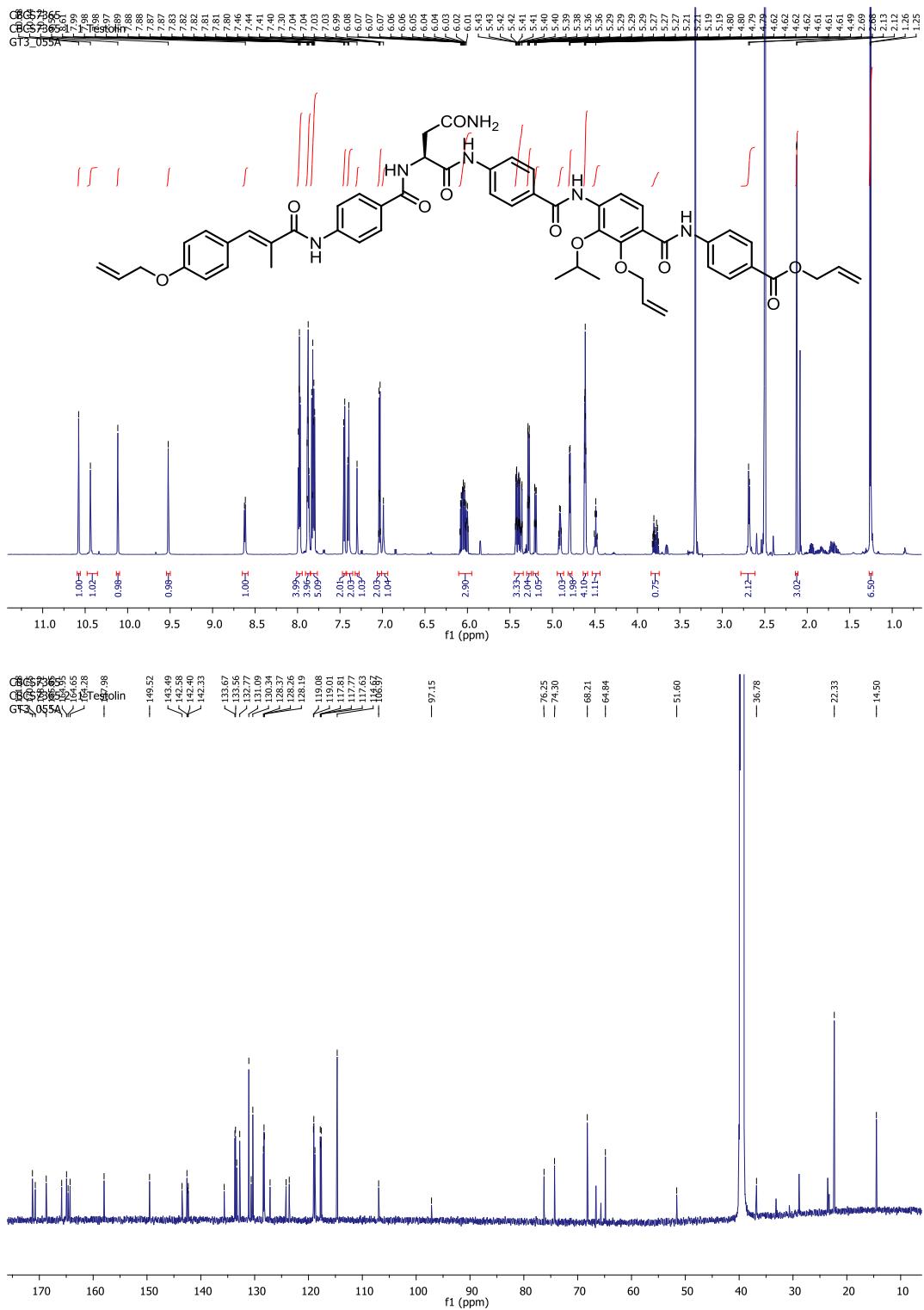
(S)-4-(4-(4-Amino-2-(4-(4-cyano-3-methylbenzamido)benzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid



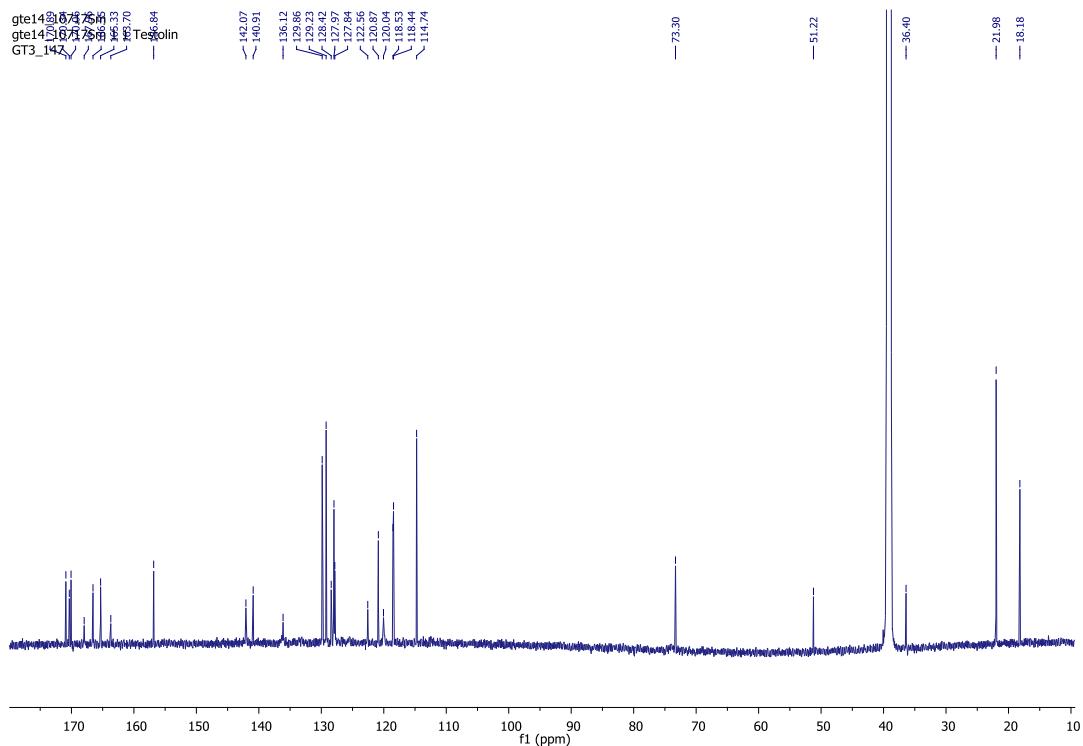
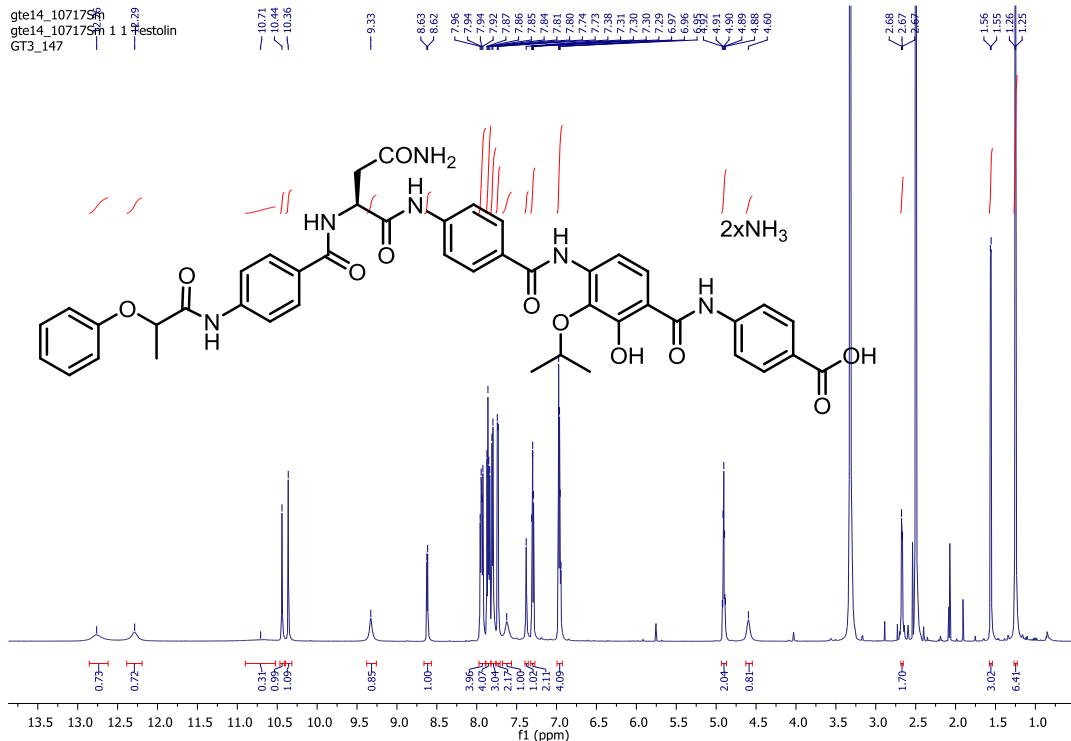
(S,E)-4-(4-(4-Amino-2-(4-(3-(4-hydroxyphenyl)-2-methylacrylamido)benzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid



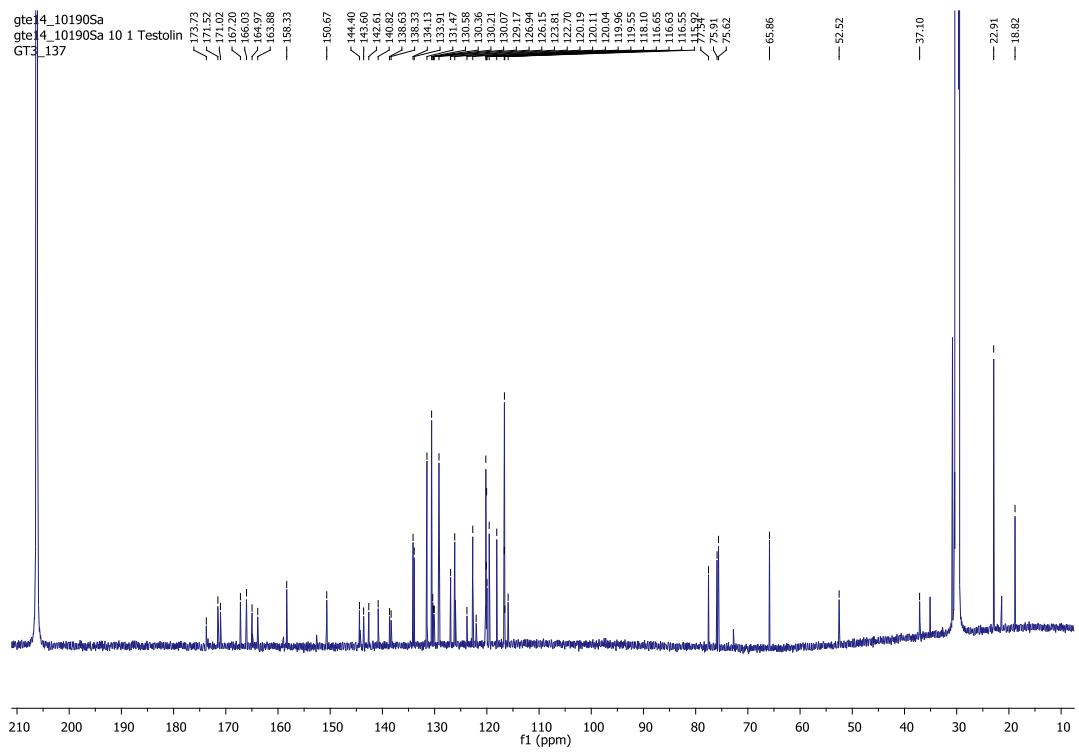
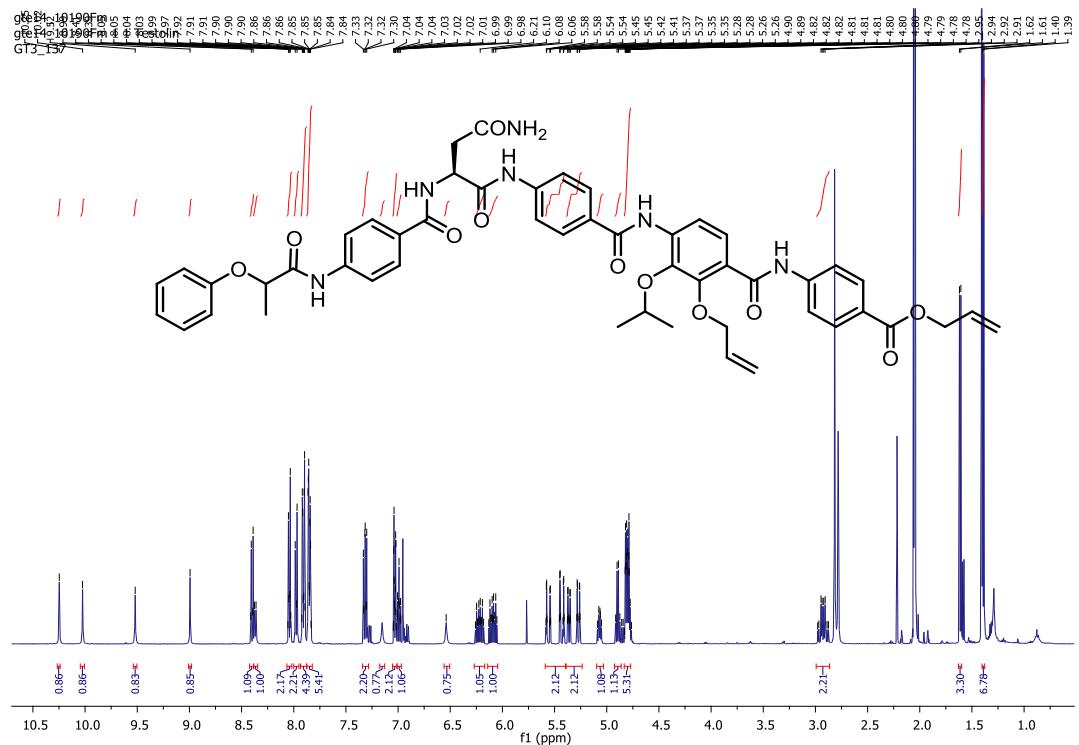
Allyl protected intermediate:



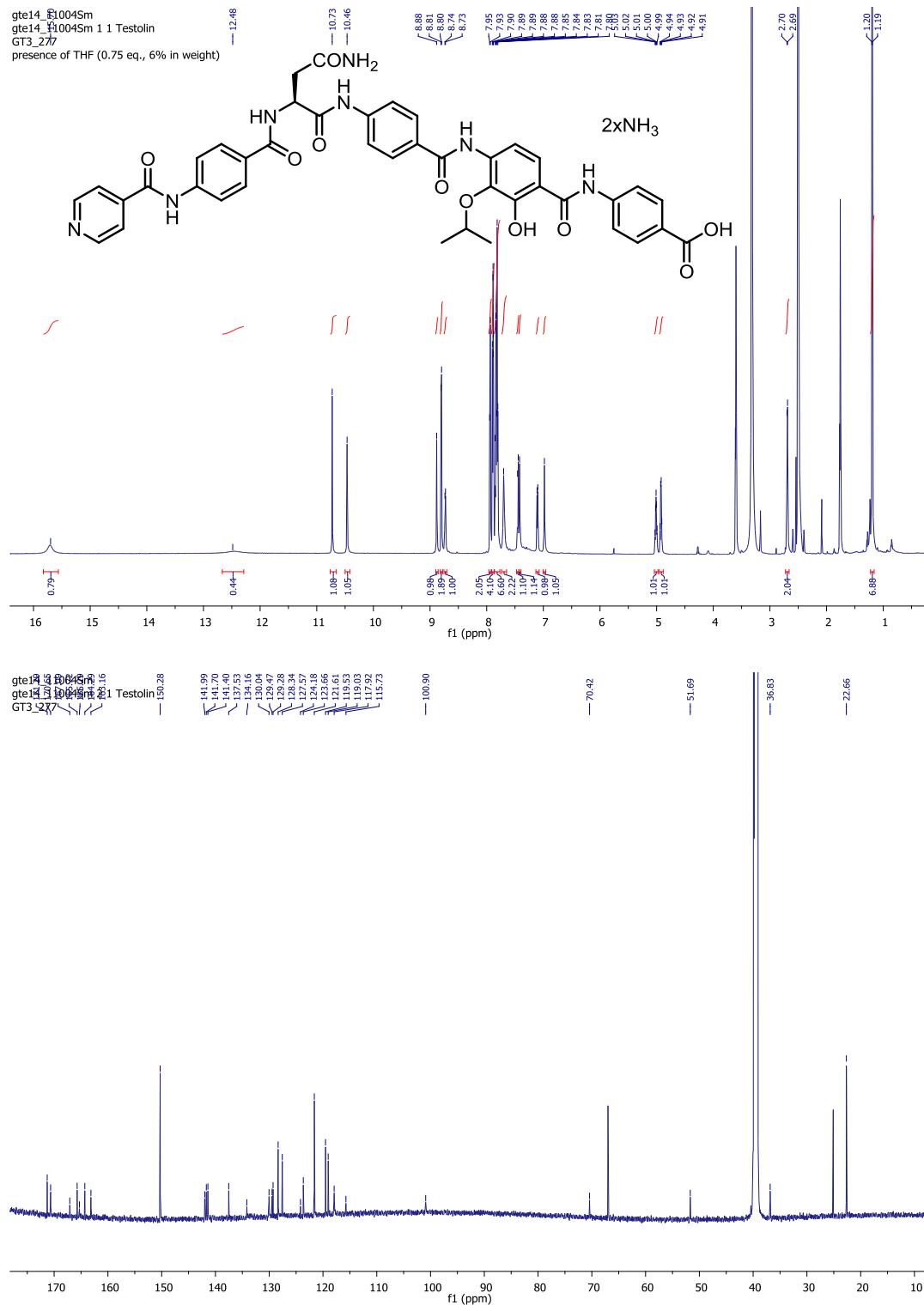
4-(4-((2S)-4-Amino-4-oxo-2-(4-(2-phenoxypropanamido)benzamido)butanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid



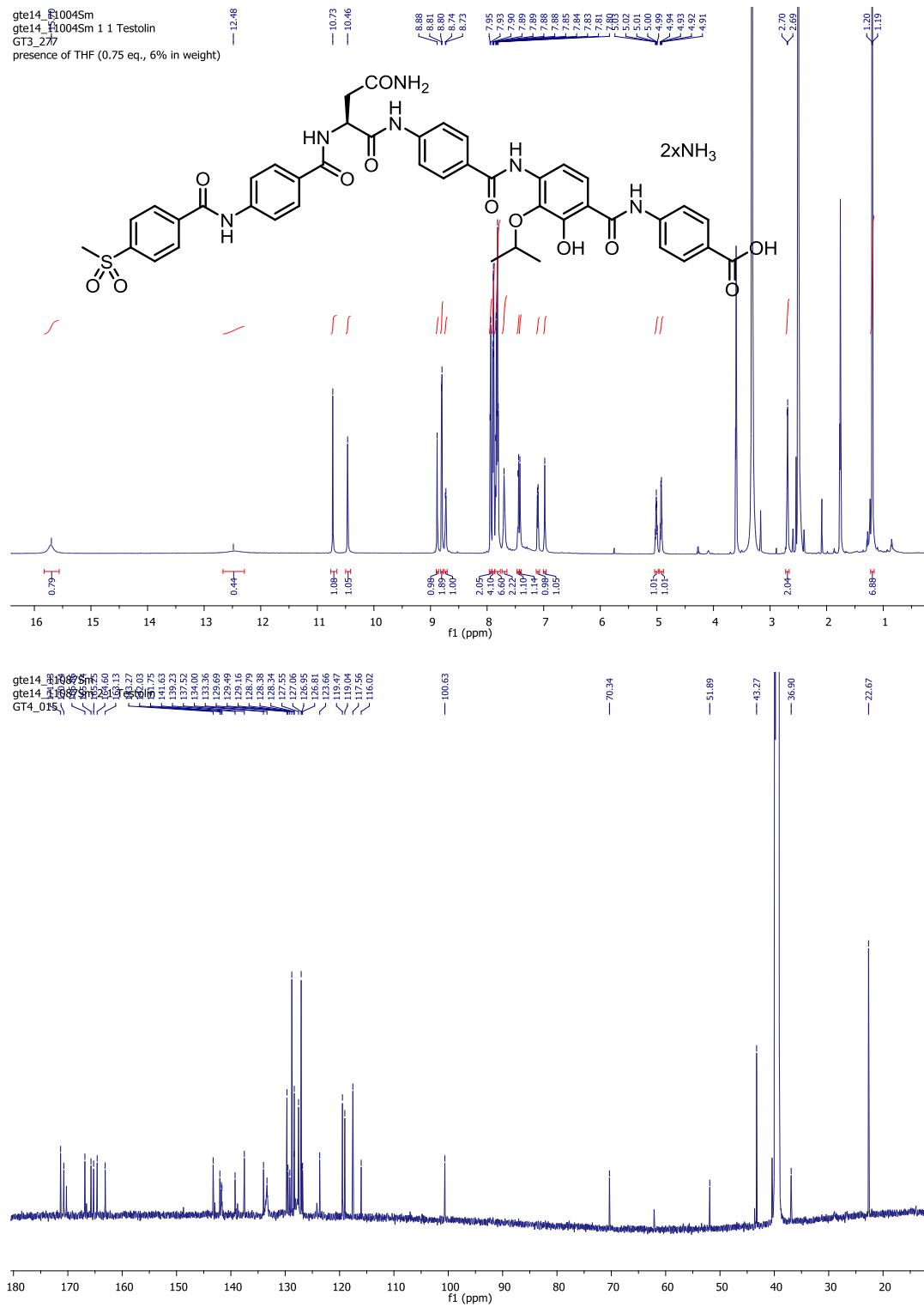
Allyl protected intermediate:



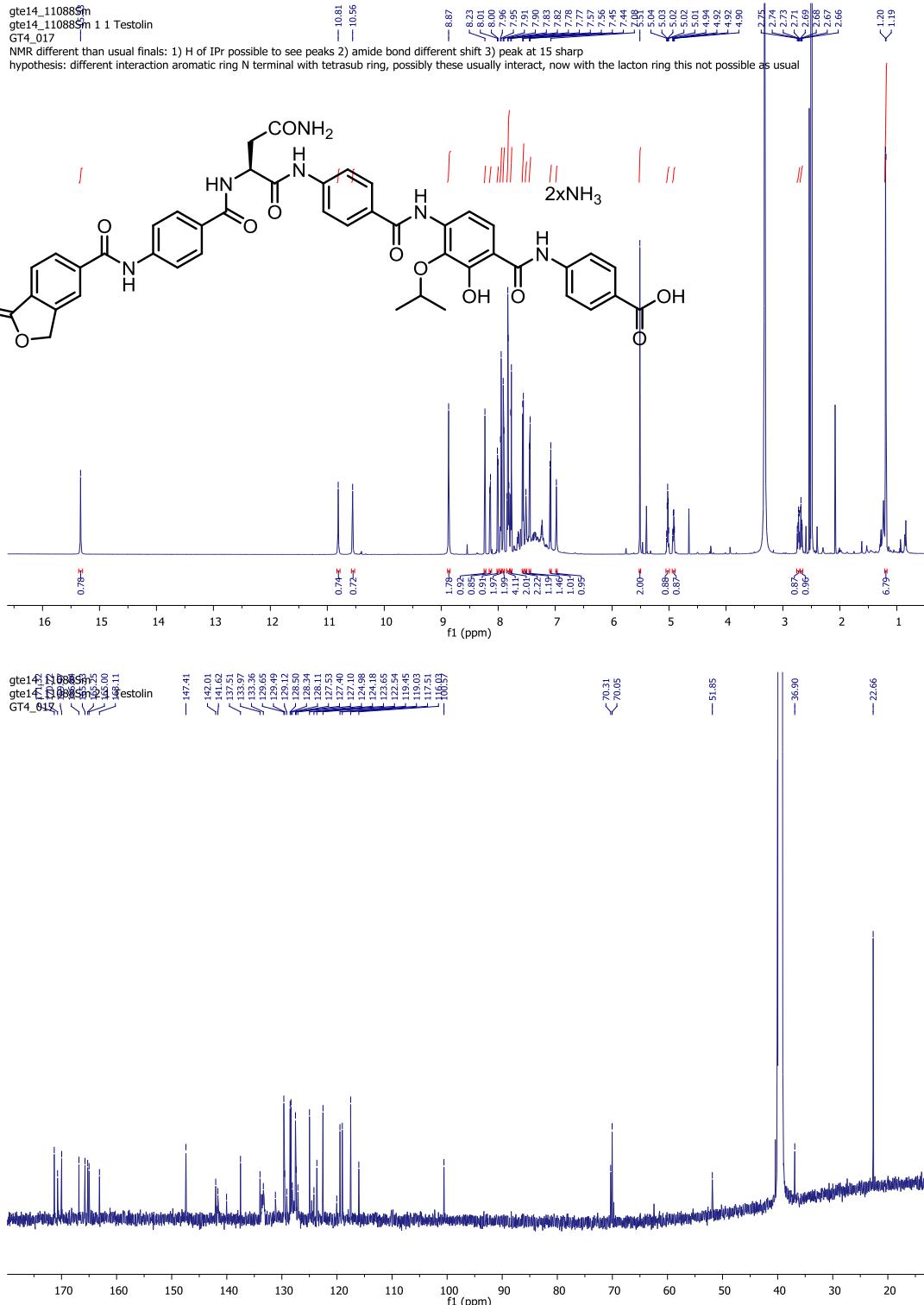
(S)-4-(4-(4-Amino-2-(4-(isonicotinamido)benzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid



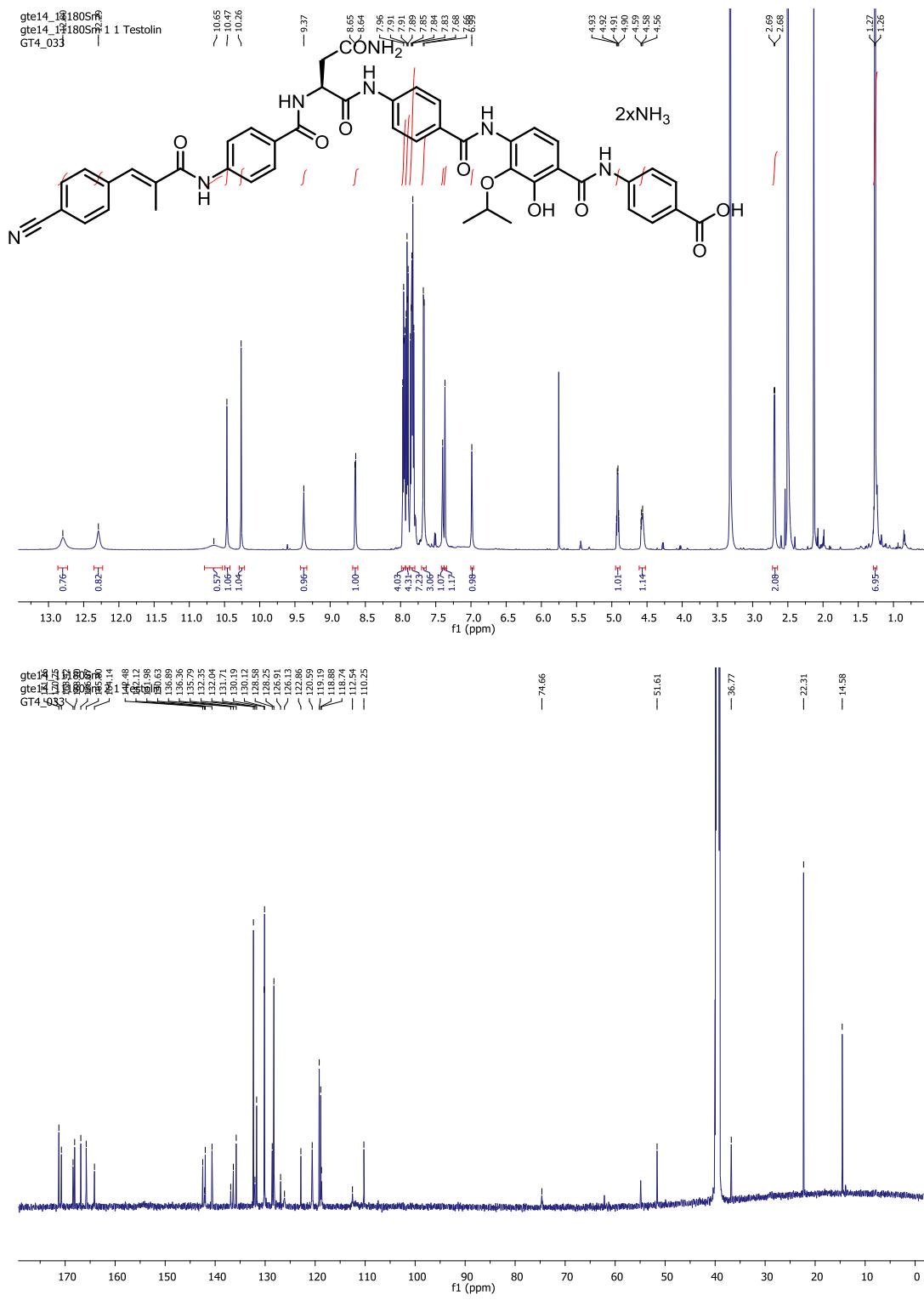
(S)-4-(4-(4-Amino-2-(4-(4-(methylsulfonyl)benzamido)benzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid



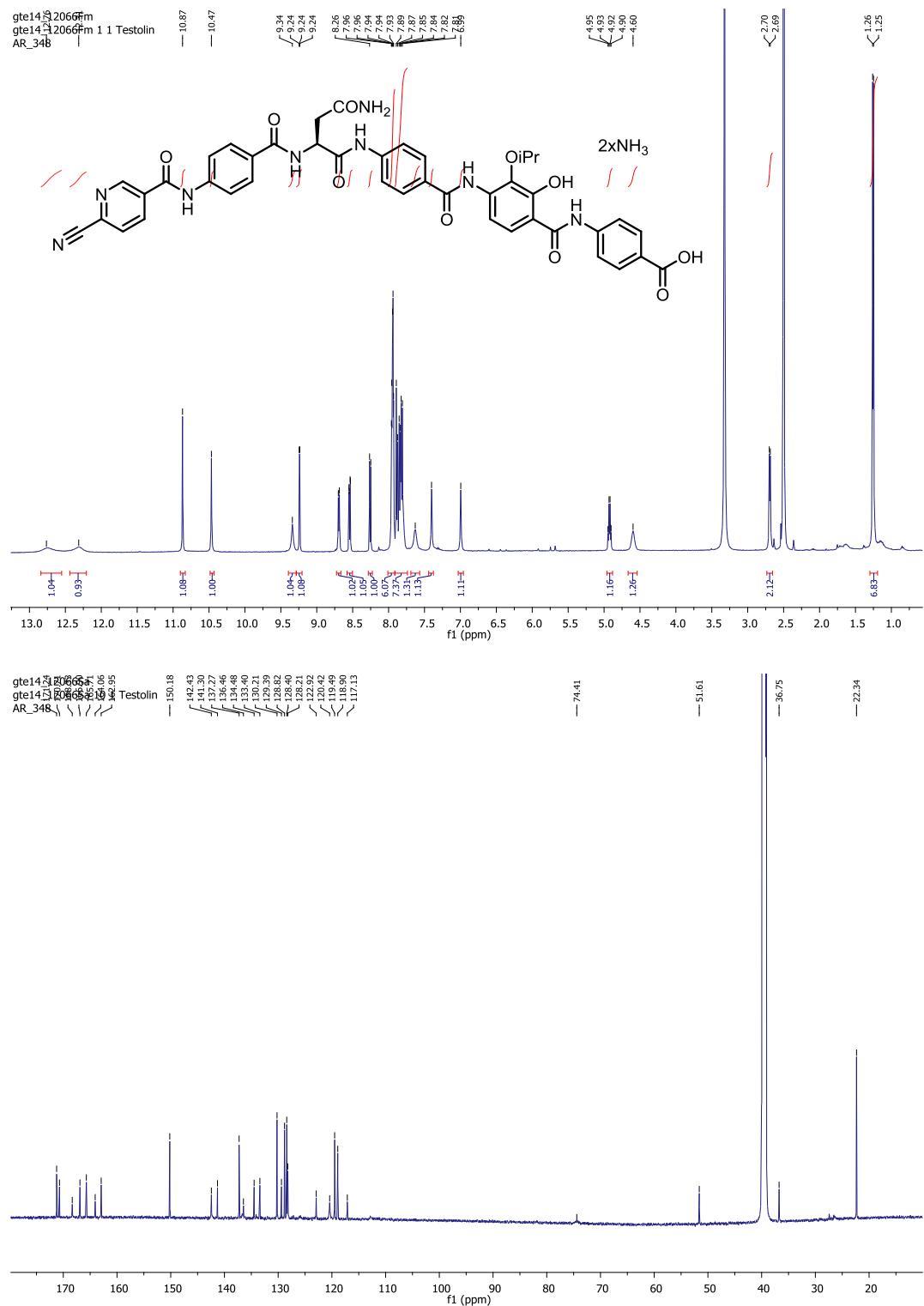
(S)-4-(4-(4-Amino-4-oxo-2-(4-(1-oxo-1,3-dihydroisobenzofuran-5-carboxamido)benzamido)butanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid



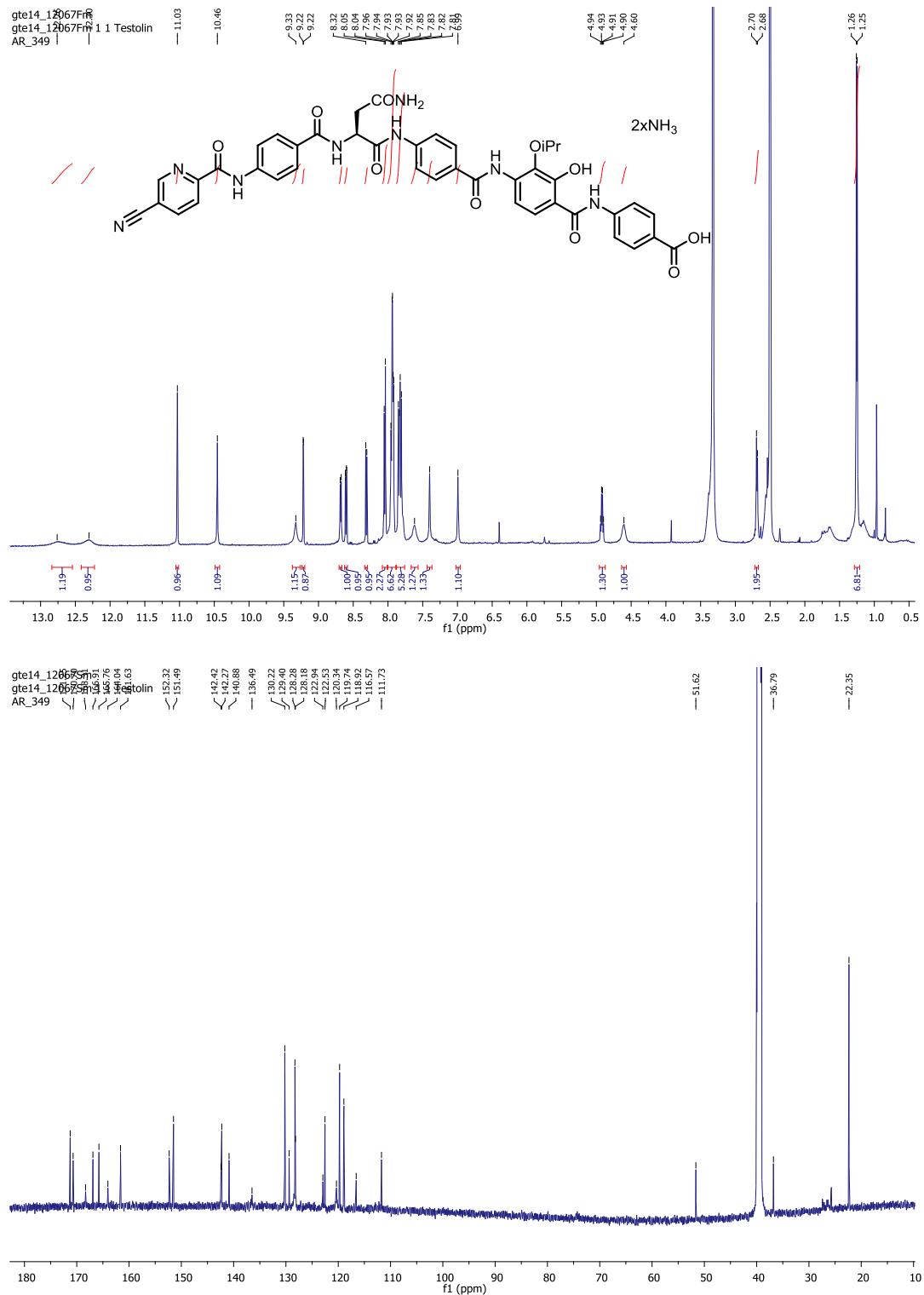
(S,E)-4-(4-(4-Amino-2-(4-(3-(4-cyanophenyl)-2-methylacrylamido)benzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid



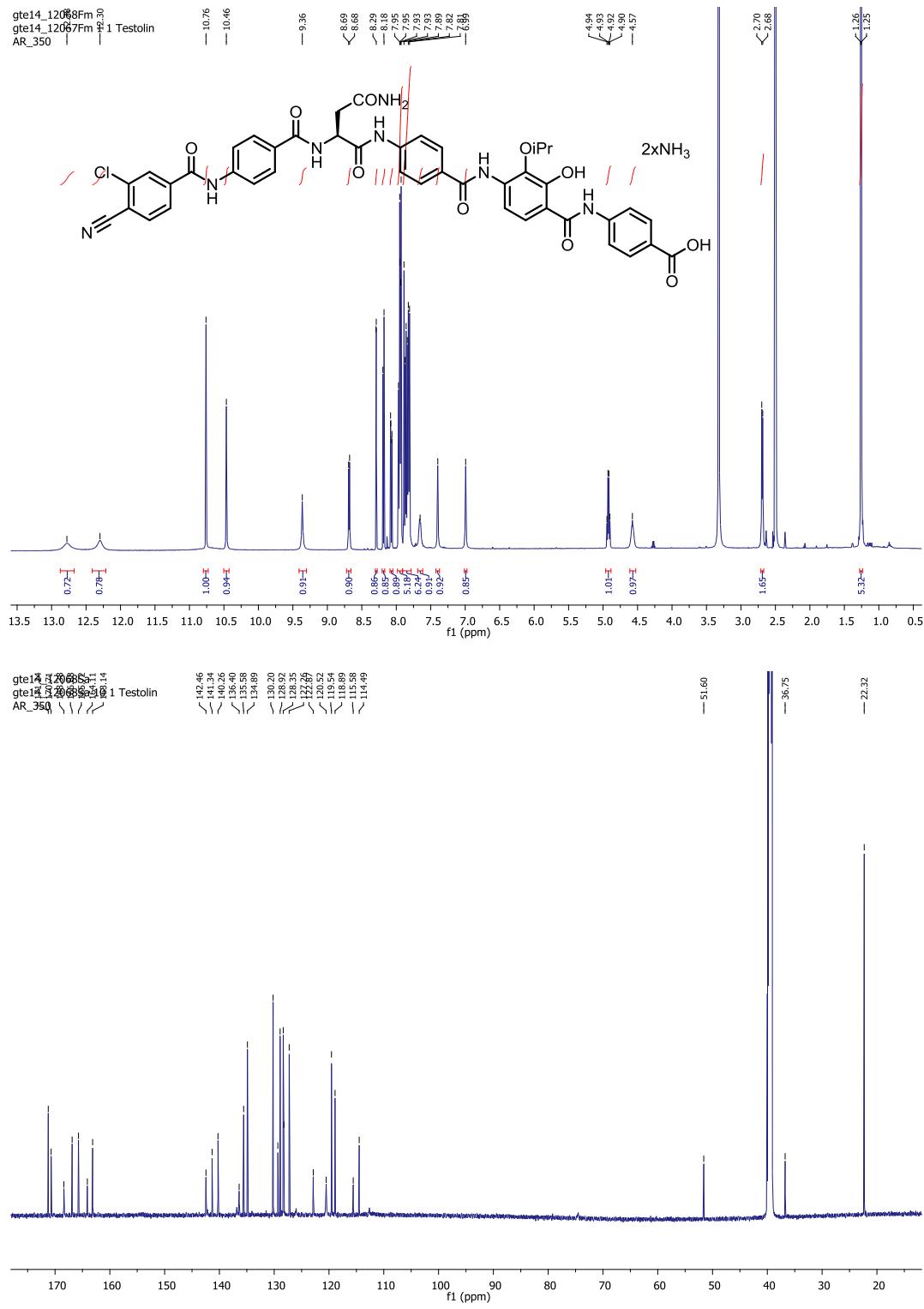
(S)-4-(4-(4-Amino-2-(4-(6-cyanonicotinamido)benzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid



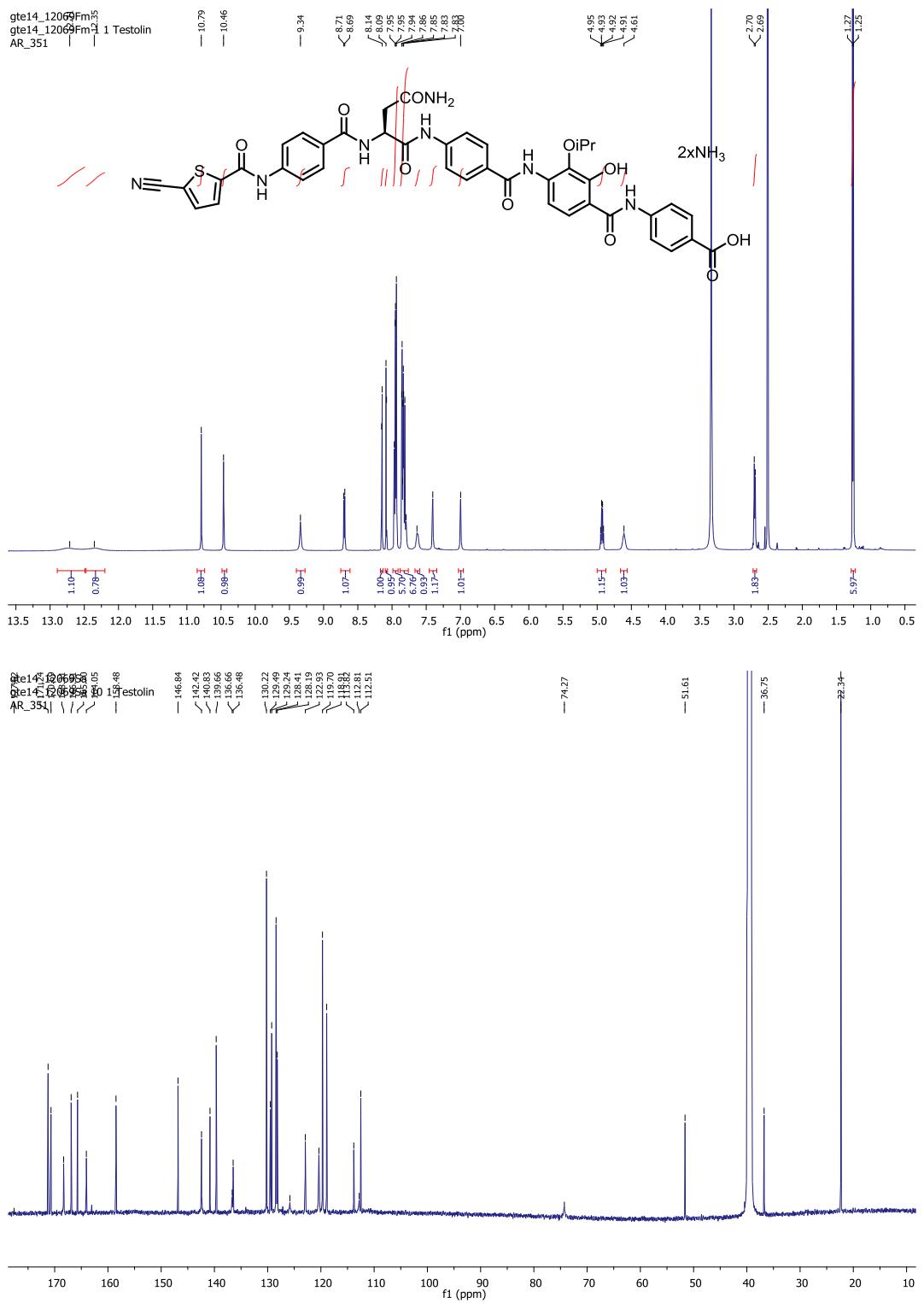
(S)-4-(4-(4-Amino-2-(4-(5-cyanopicolinamido)benzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid



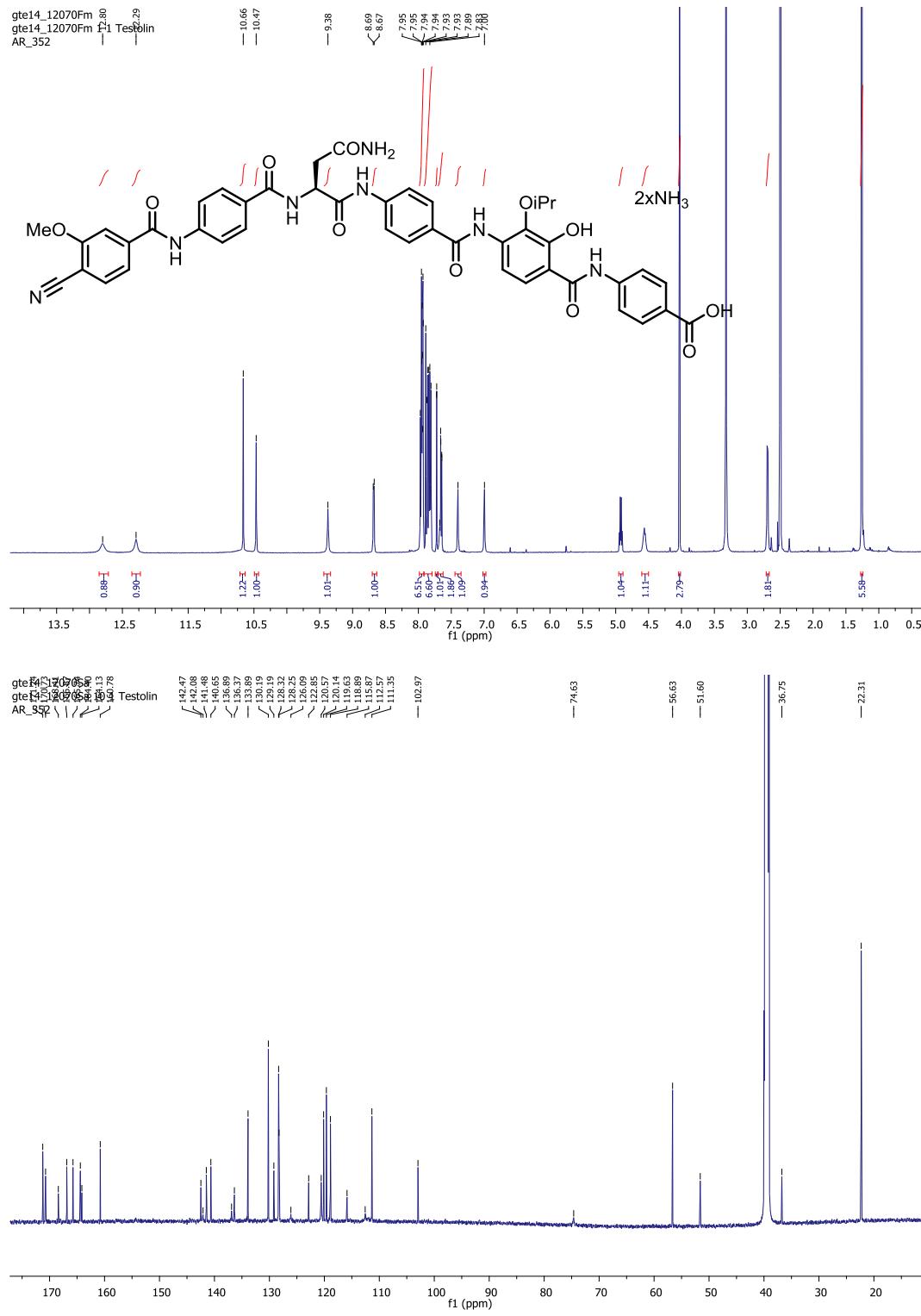
(S)-4-(4-(4-Amino-2-(4-(3-chloro-4-cyanobenzamido)benzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid



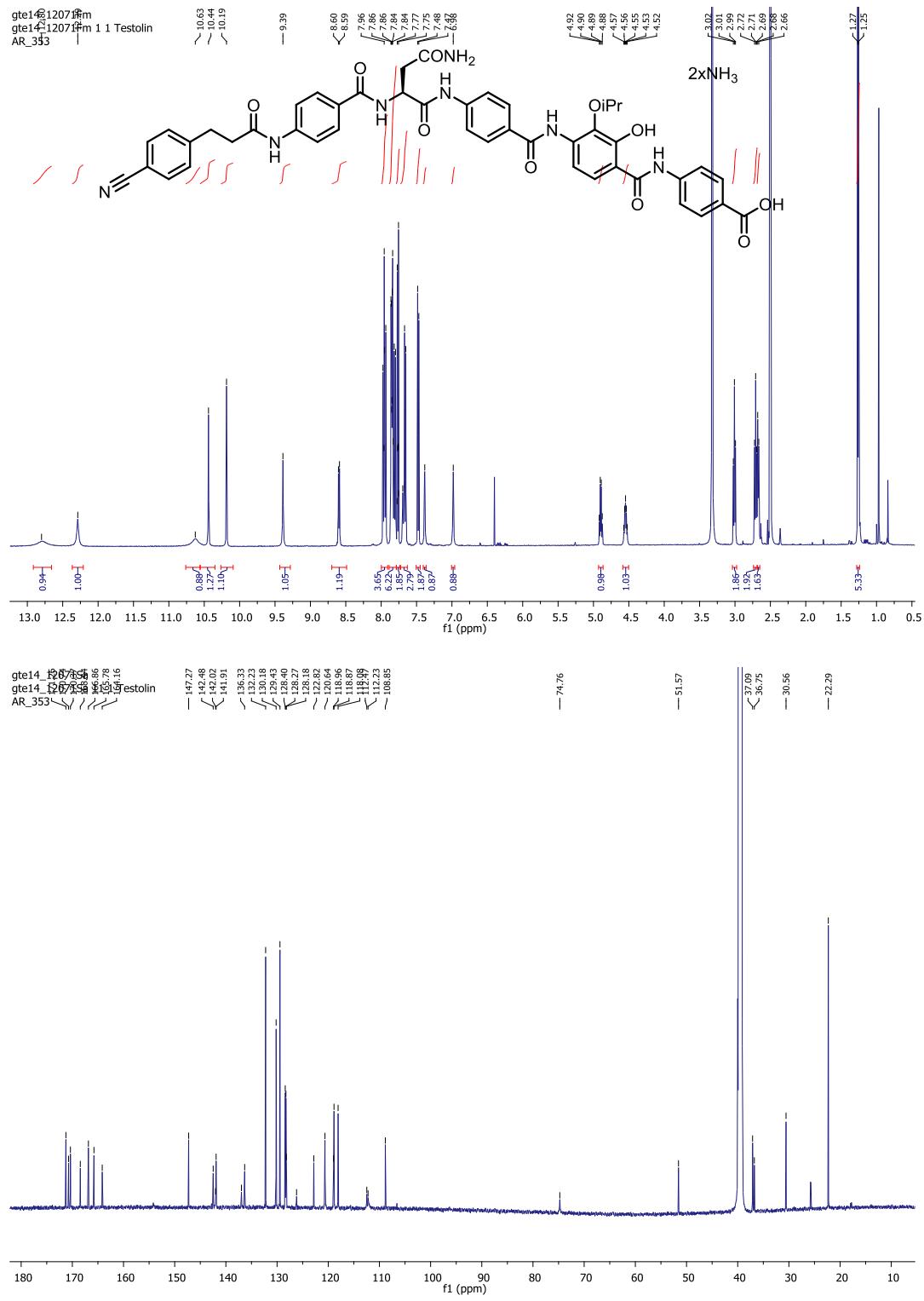
(S)-4-(4-(4-Amino-2-(4-(5-cyanothiophene-2-carboxamido)benzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid



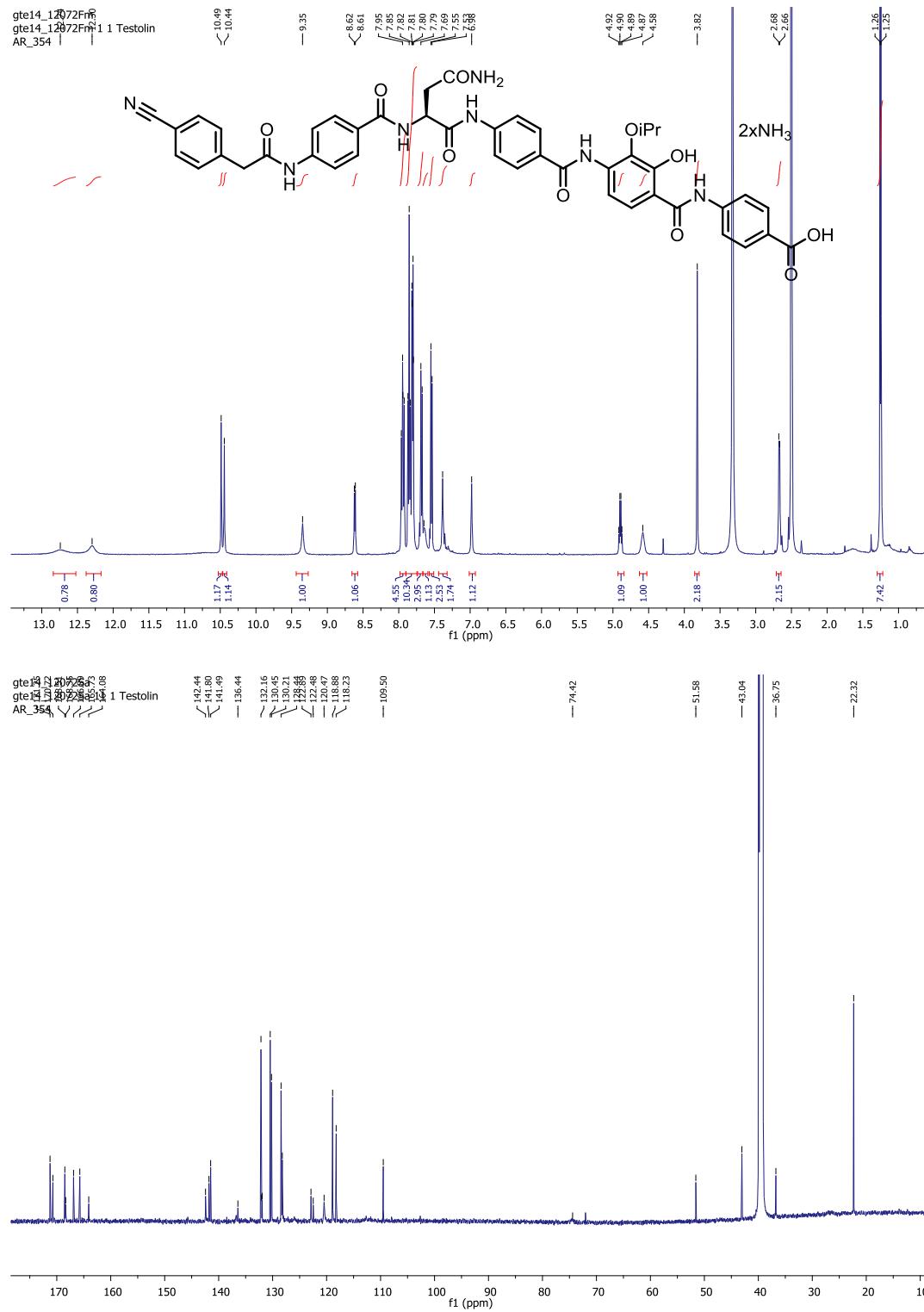
(S)-4-(4-(4-Amino-2-(4-(4-cyano-3-methoxybenzamido)benzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid



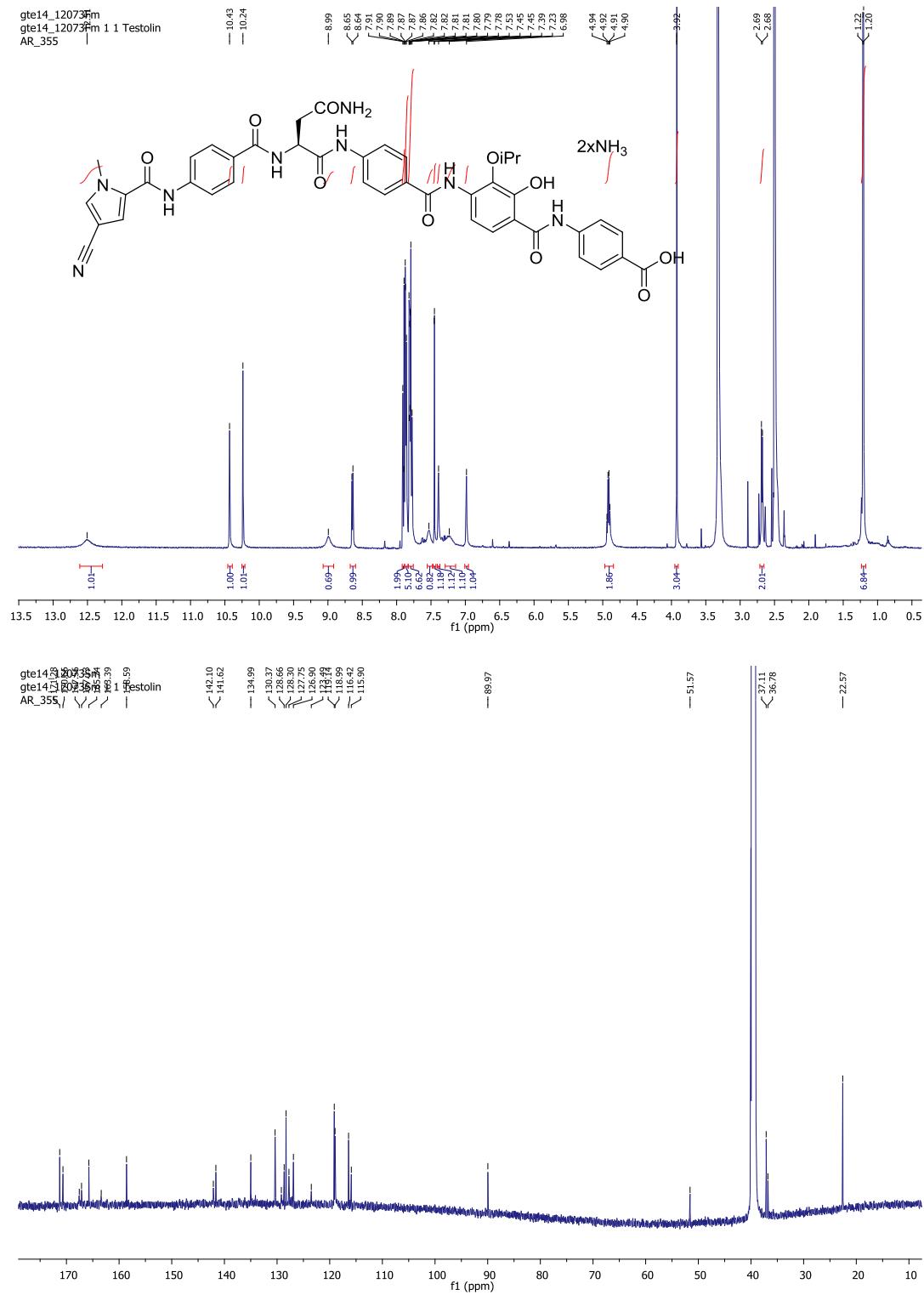
(S)-4-(4-(4-Amino-2-(4-(3-(4-cyanophenyl)propanamido)benzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid



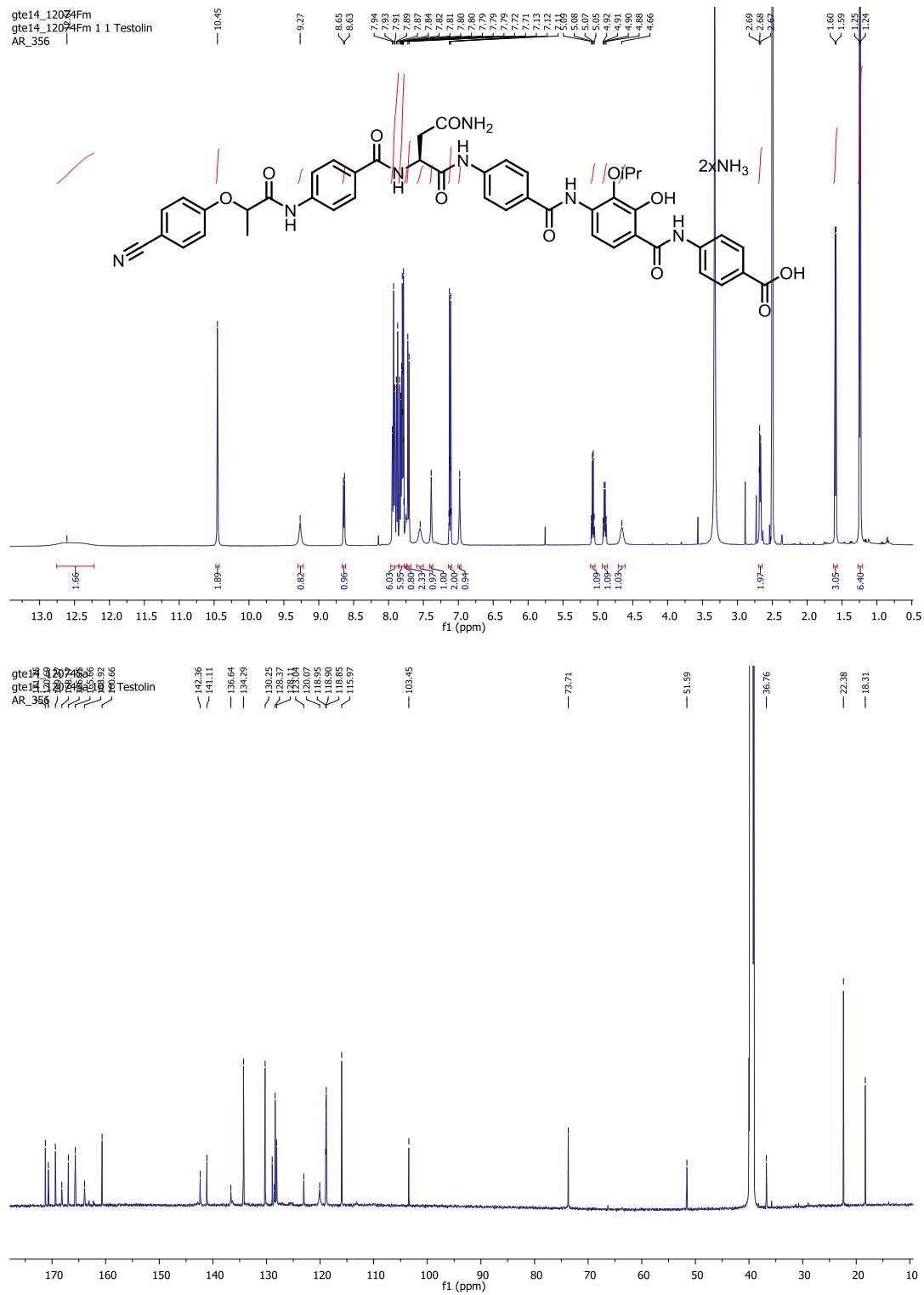
(S)-4-(4-(4-Amino-2-(4-(2-(4-cyanophenyl)acetamido)benzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid



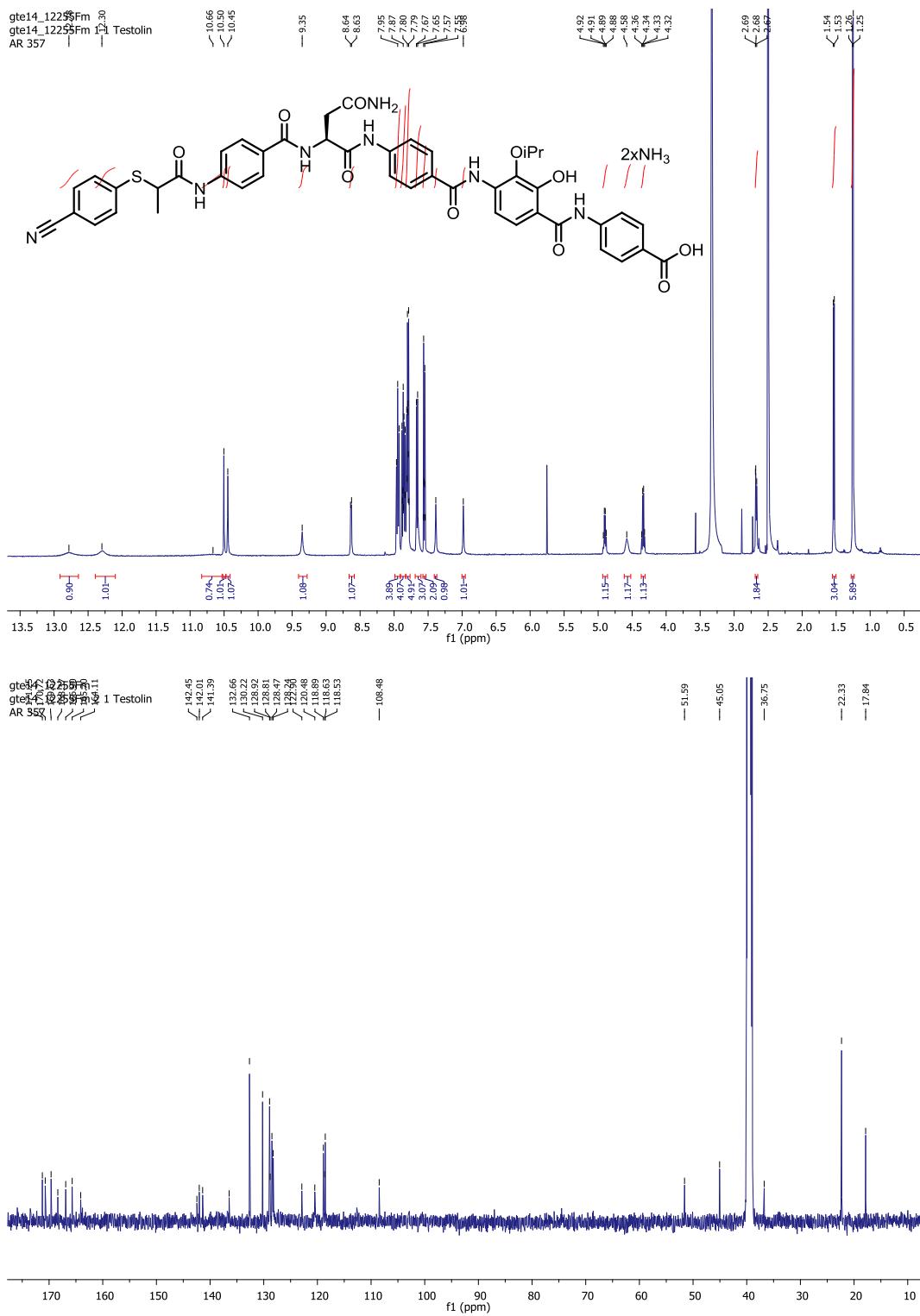
(S)-4-(4-(4-Amino-2-(4-(4-cyano-1-methyl-1H-pyrrole-2-carboxamido)benzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid



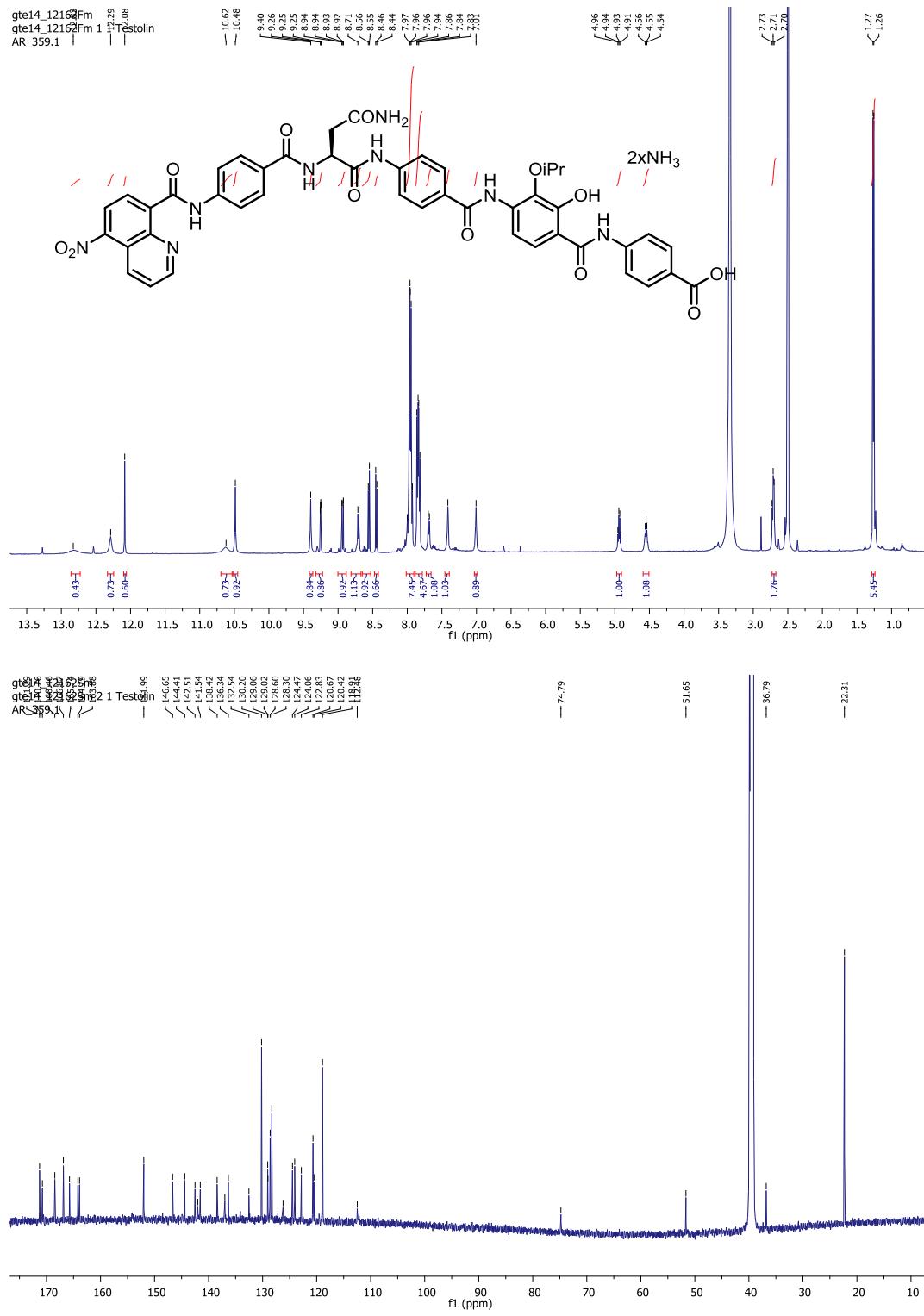
4-(4-((2S)-4-Amino-2-(4-(2-(4-cyanophenoxy)propanamido)benzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid



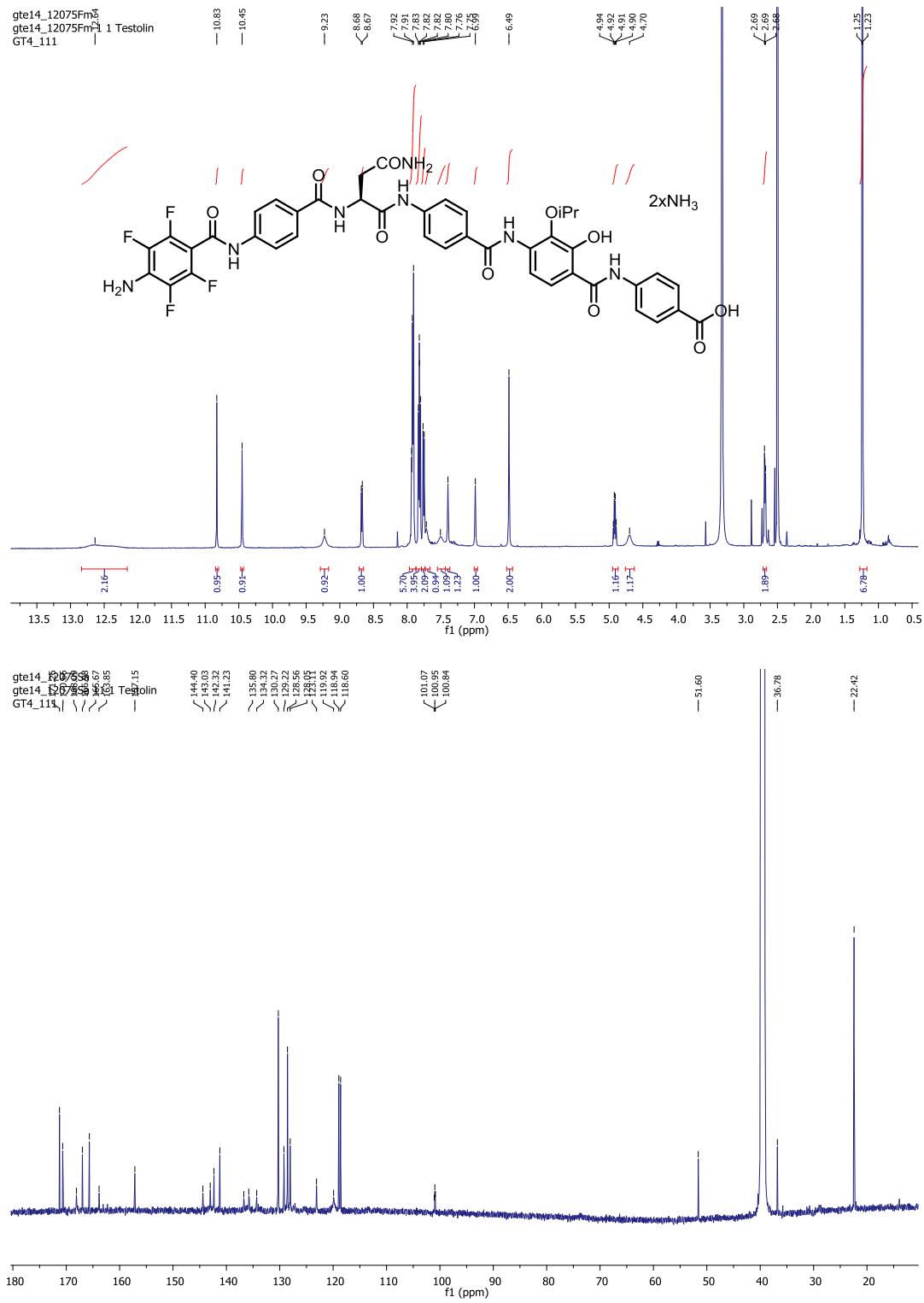
4-(4-((2S)-4-Amino-2-(4-(2-((4-cyanophenyl)thio)propanamido)benzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid



(S)-4-(4-(4-Amino-2-(4-(5-nitroquinoline-8-carboxamido)benzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid

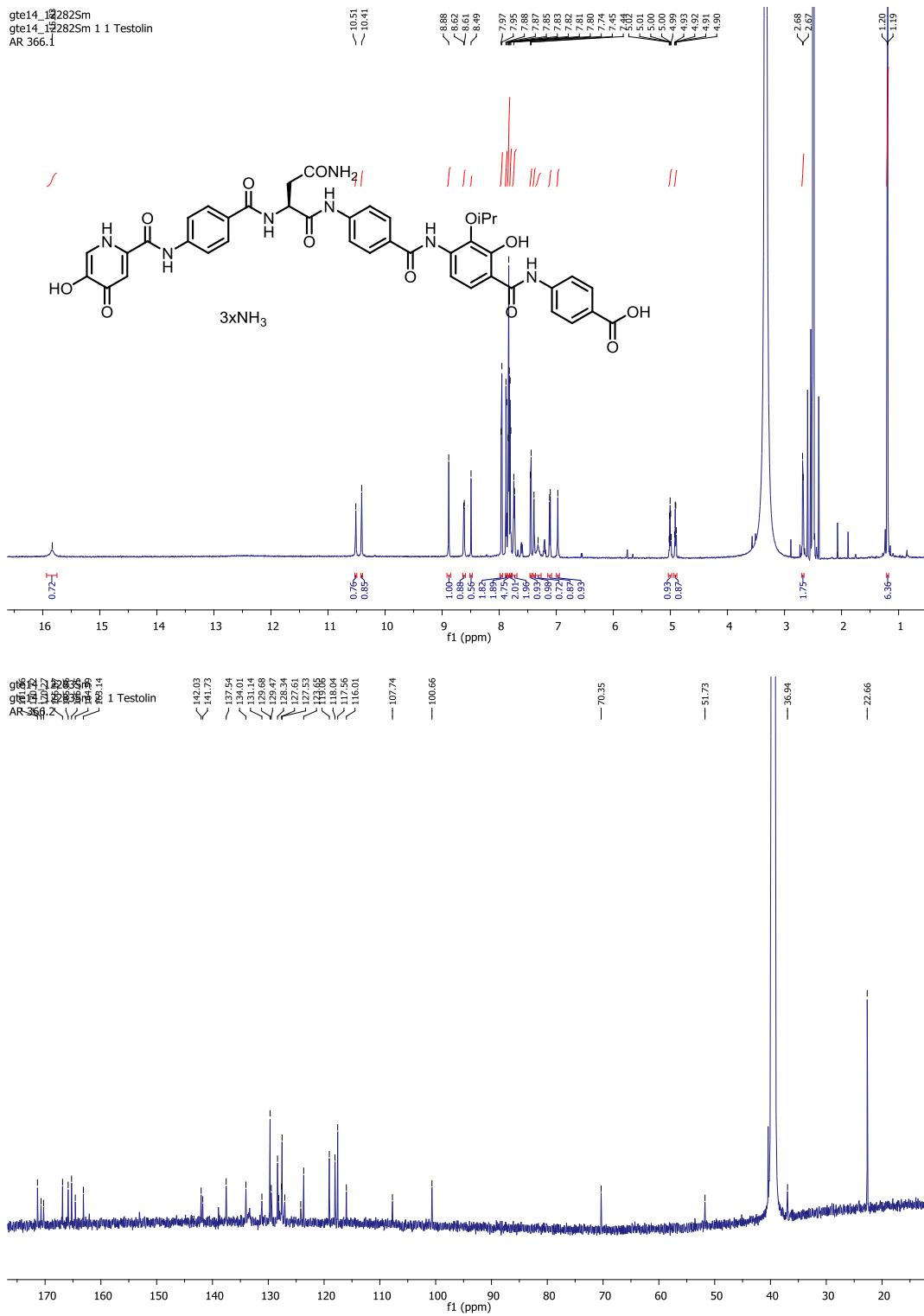


(S)-4-(4-(4-Amino-2-(4-(4-amino-2,3,5,6-tetrafluorobenzamido)benzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid

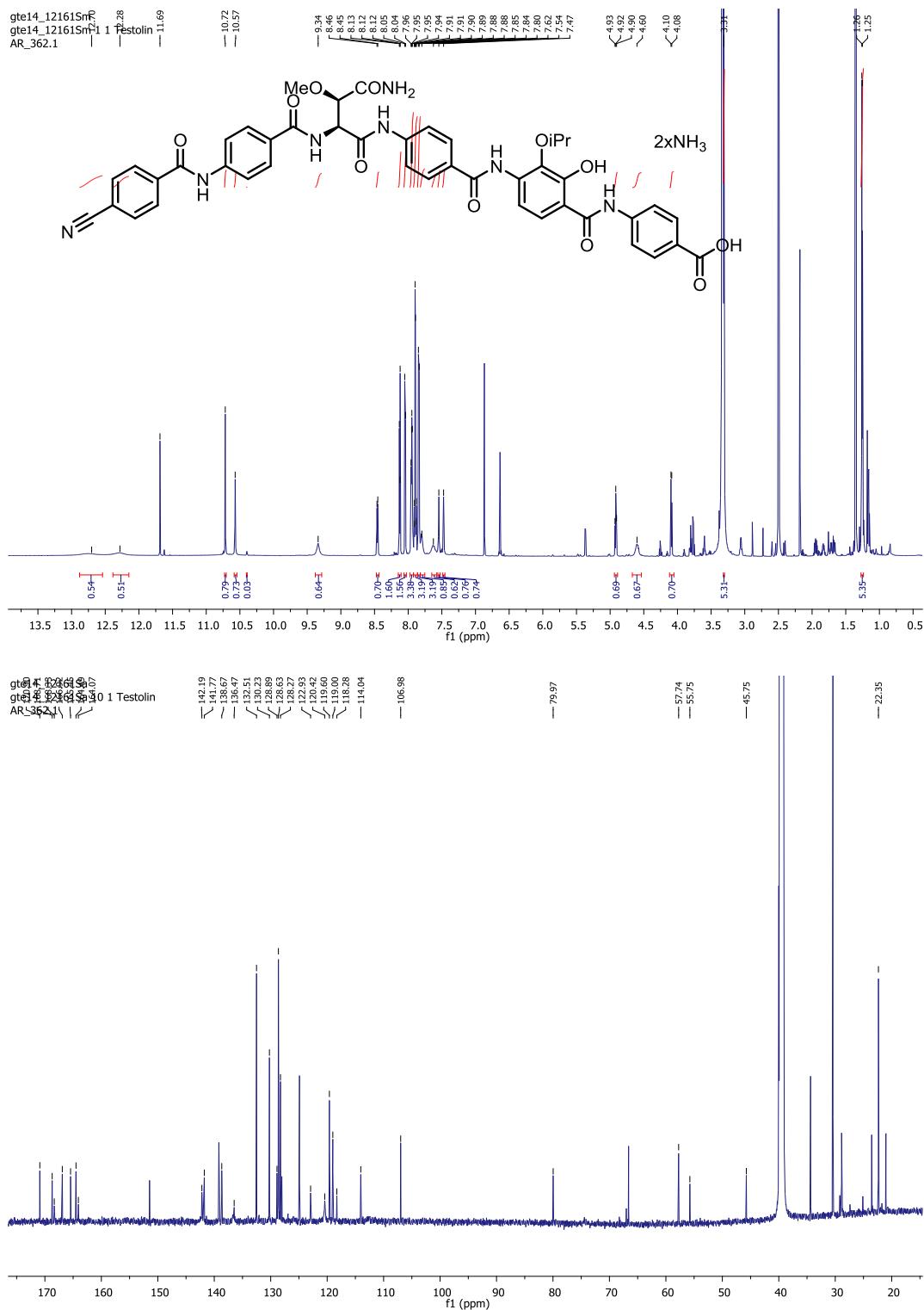


(S)-4-(4-(4-Amino-2-(4-(5-hydroxy-4-oxo-1,4-dihydropyridine-2-carboxamido)benzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid

gte14_12825m
gte14_12825m 1 1 Testolin
AR 366.1

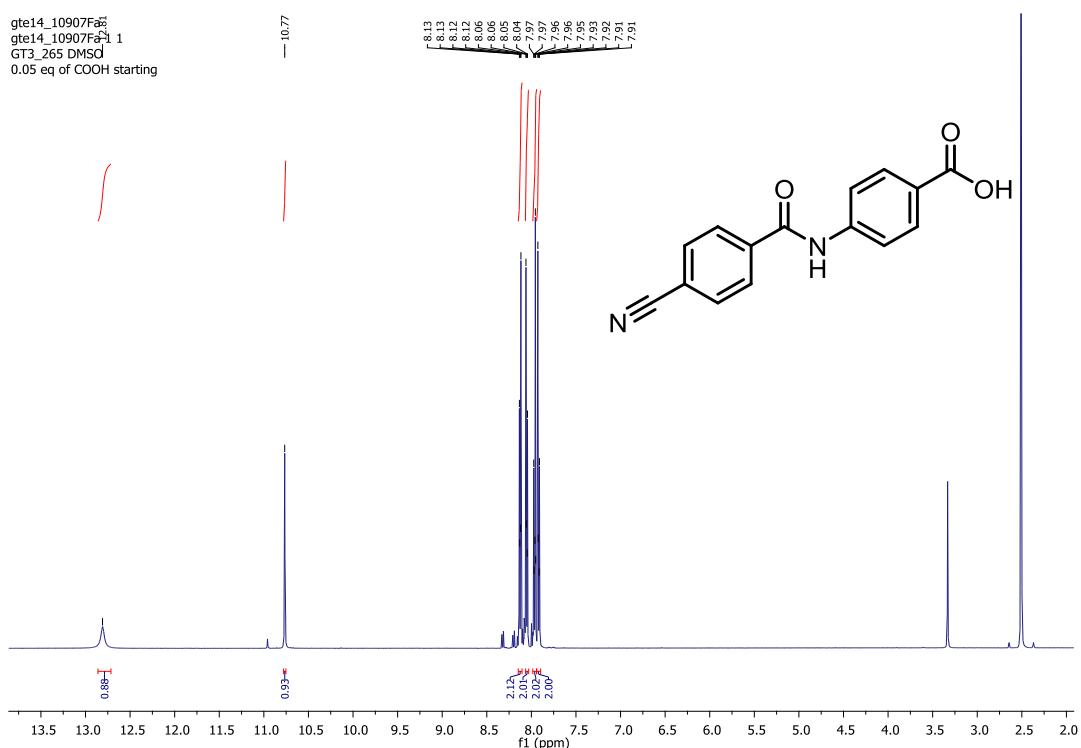


4-(4-((2S,3R)-4-Amino-2-(4-(4-cyanobenzamido)benzamido)-3-methoxy-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid

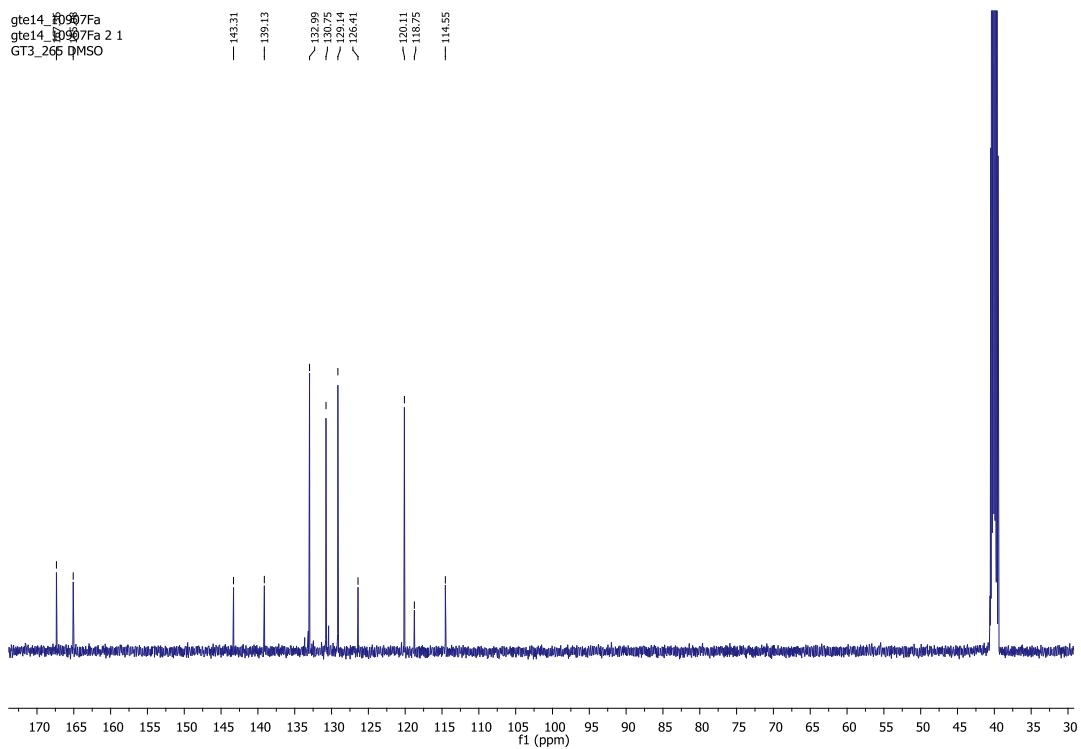


4-(4-Cyanobenzamido)benzoic acid

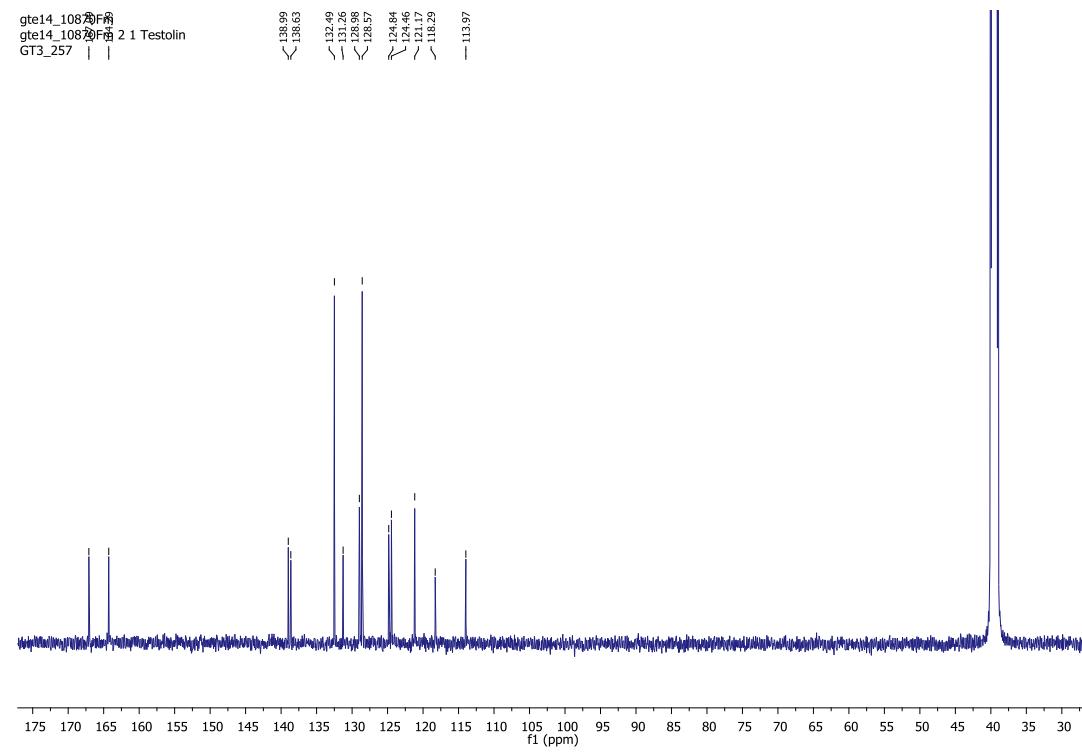
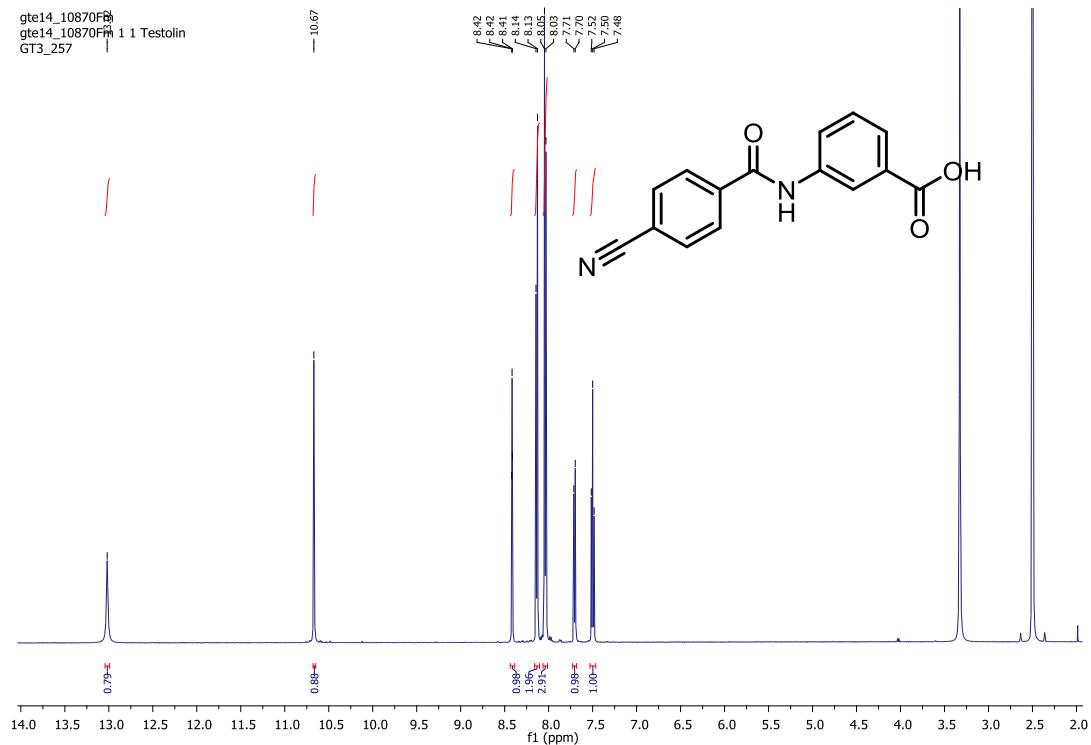
gte14_10907Fa²
gte14_10907Fa 1
GT3_265 DMSO
0.05 eq of COOH starting



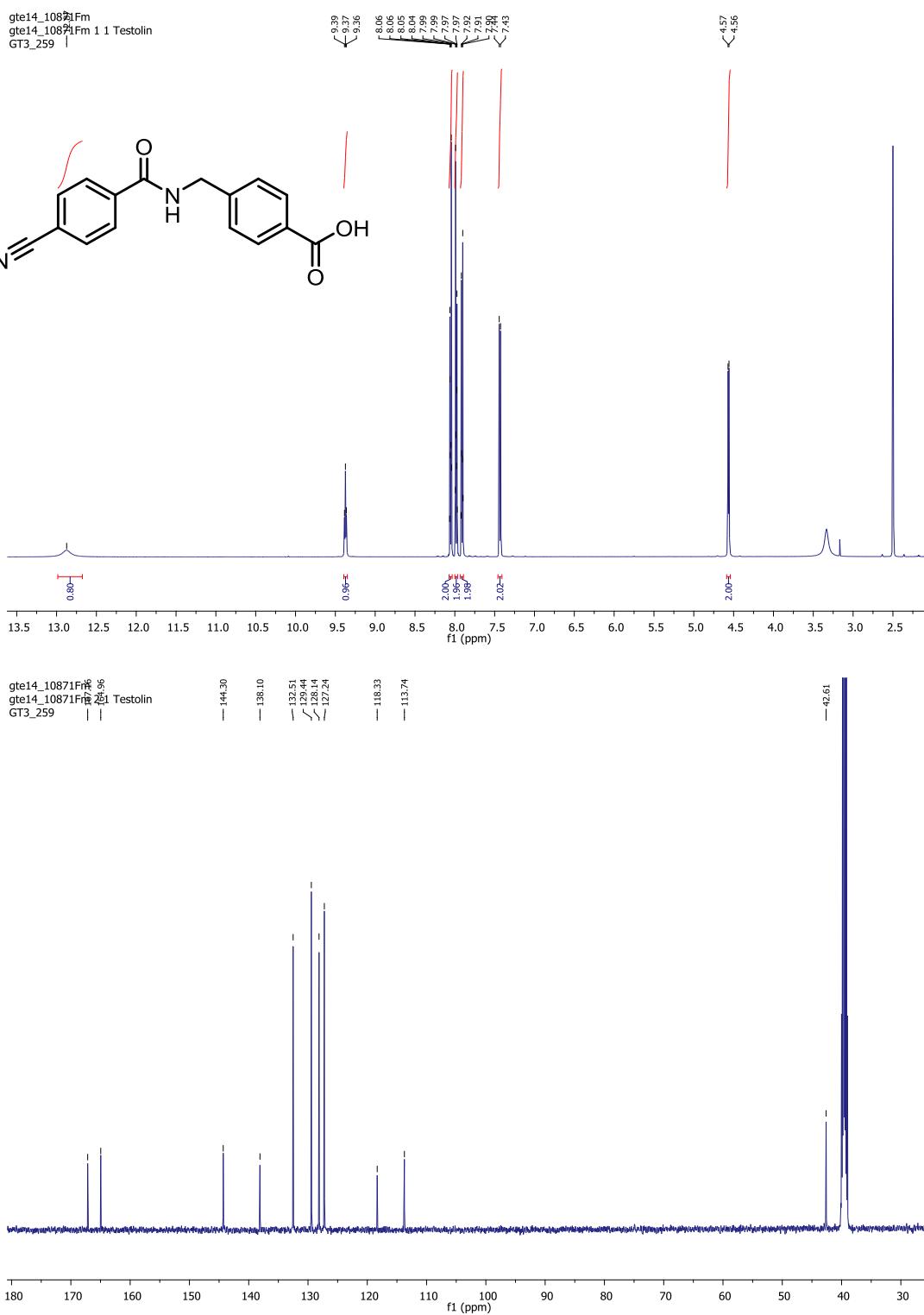
gte14_10907Fa
gte14_10907Fa 2 1
GT3_265 DMSO



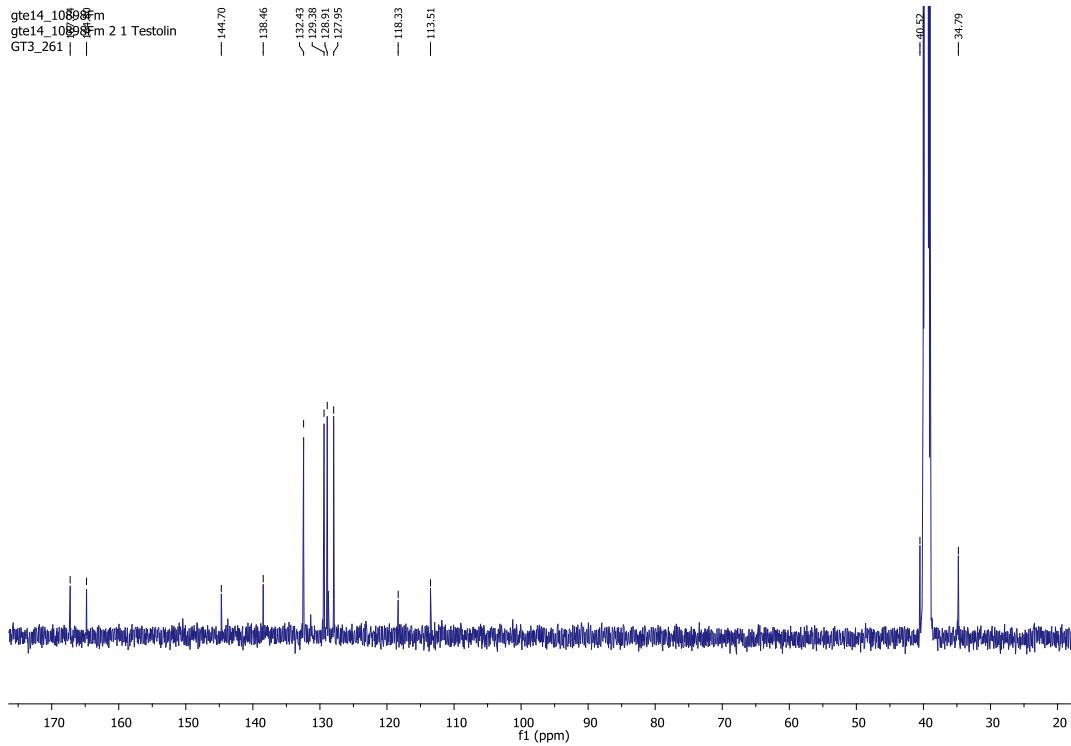
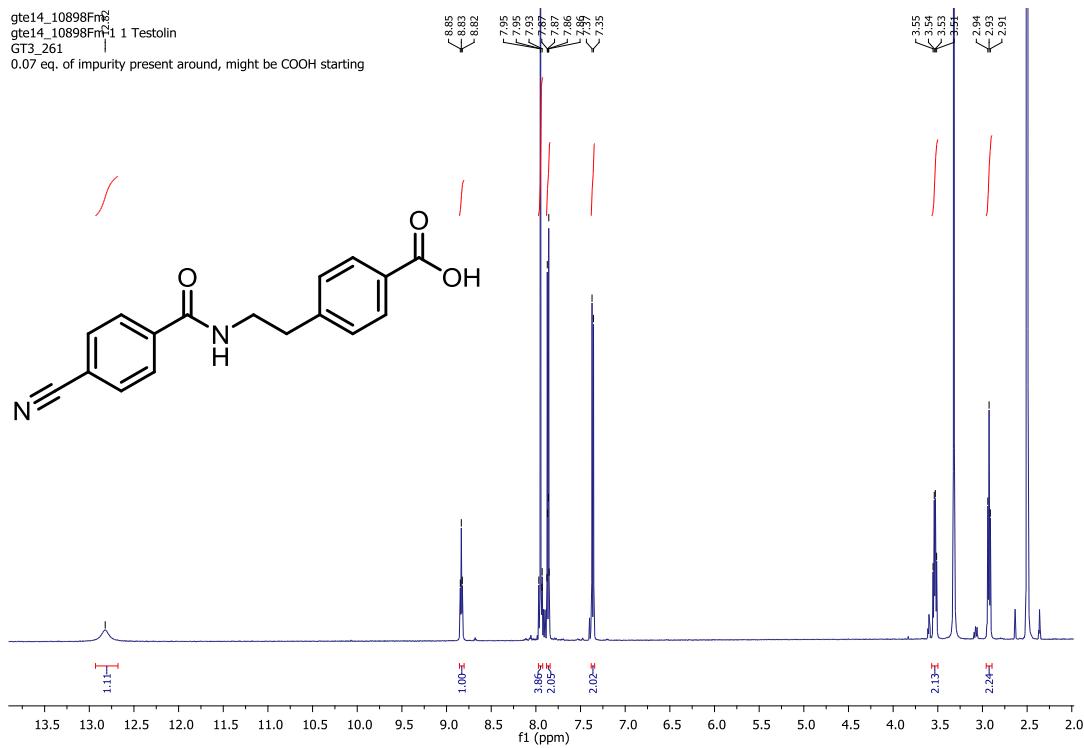
3-(4-Cyanobenzamido)benzoic acid



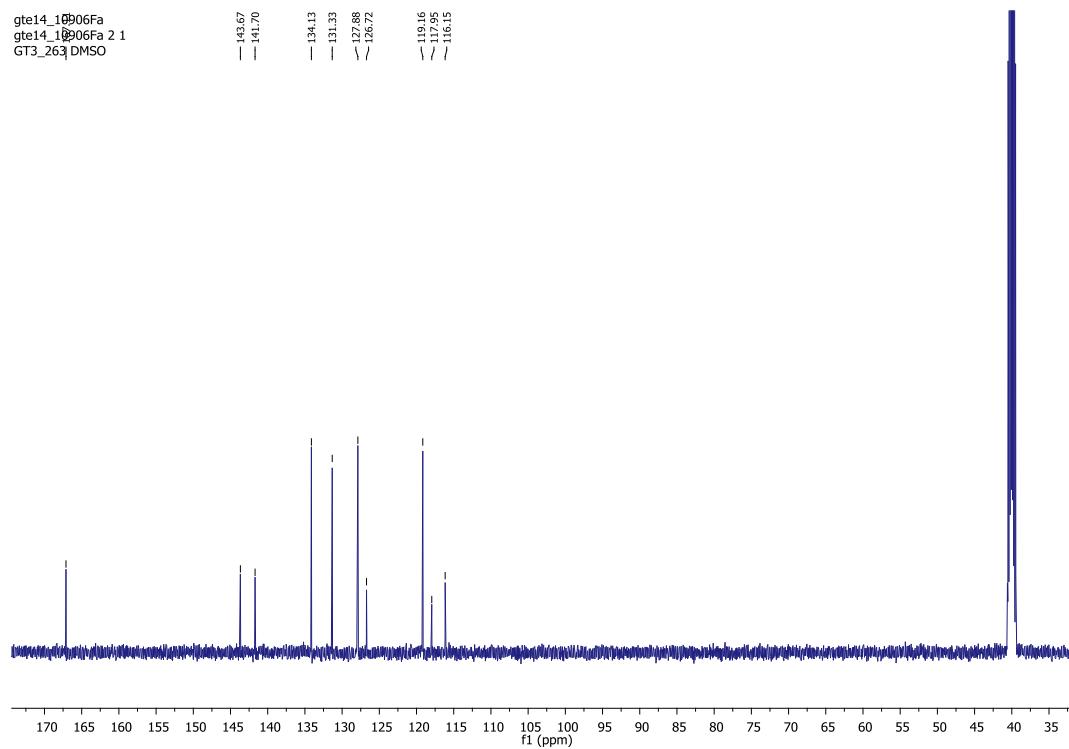
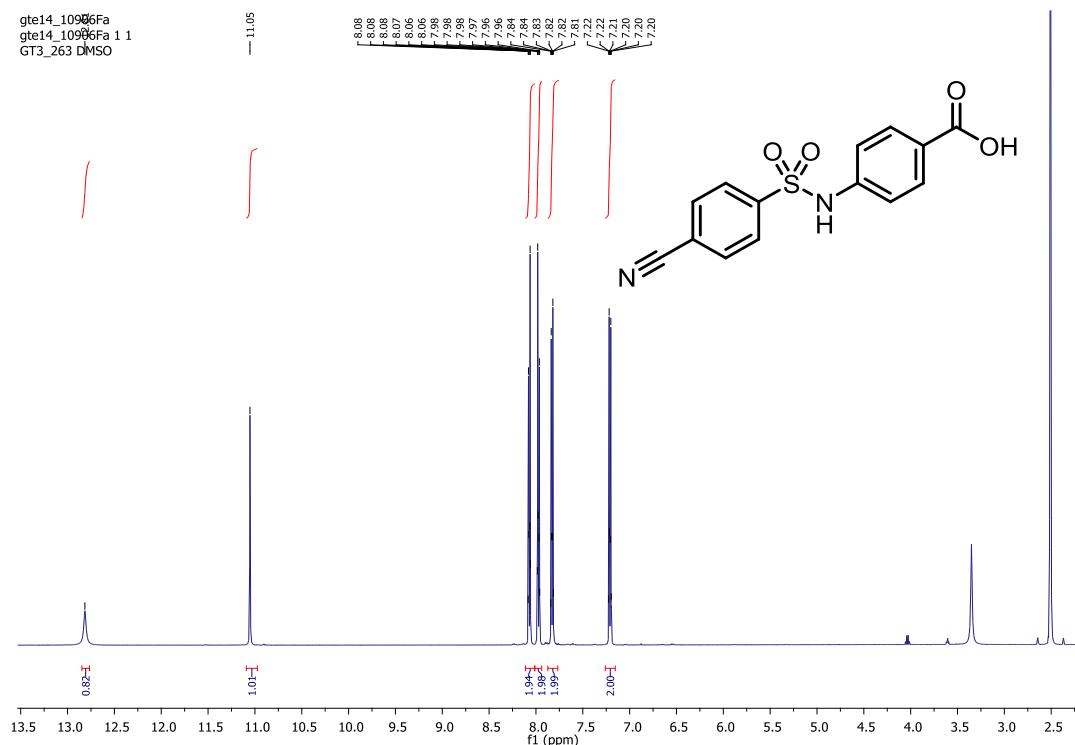
4-((4-Cyanobenzamido)methyl)benzoic acid



4-(2-(4-Cyanobenzamido)ethyl)benzoic acid

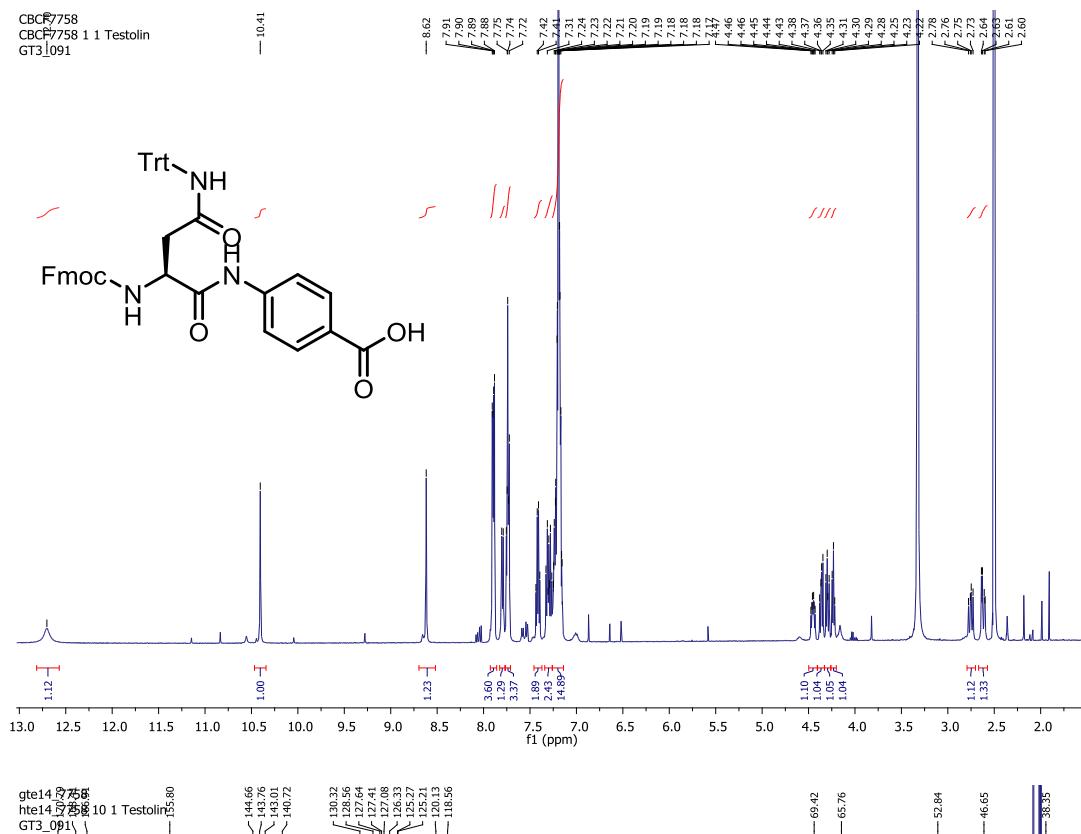
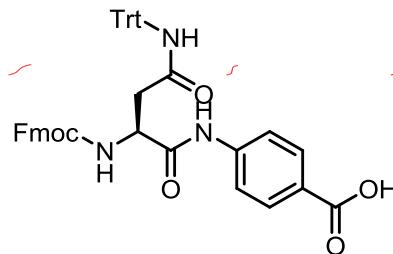


4-((4-Cyanophenyl)sulfonamido)benzoic acid

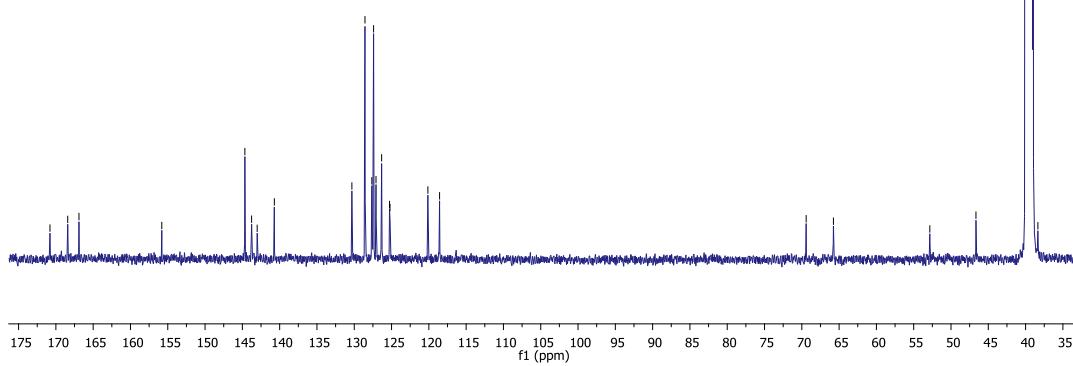


(S)-4-(2-(((9H-Fluoren-9-yl)methoxy)carbonyl)amino)-4-oxo-4-(tritylamino)butanamido)benzoic acid

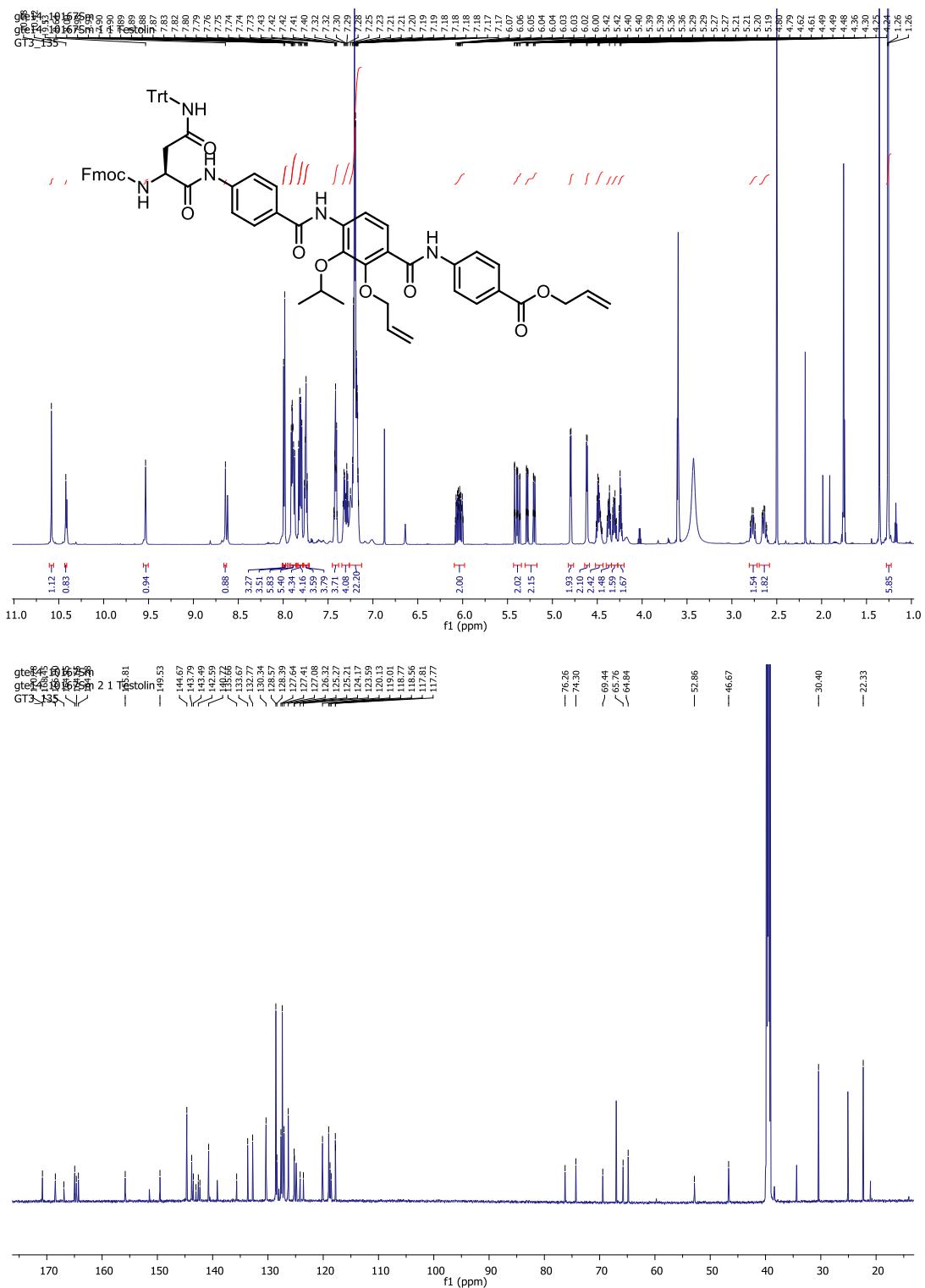
CBCP7758
CBCP7758 1 1 Testolin
GT3 | 091



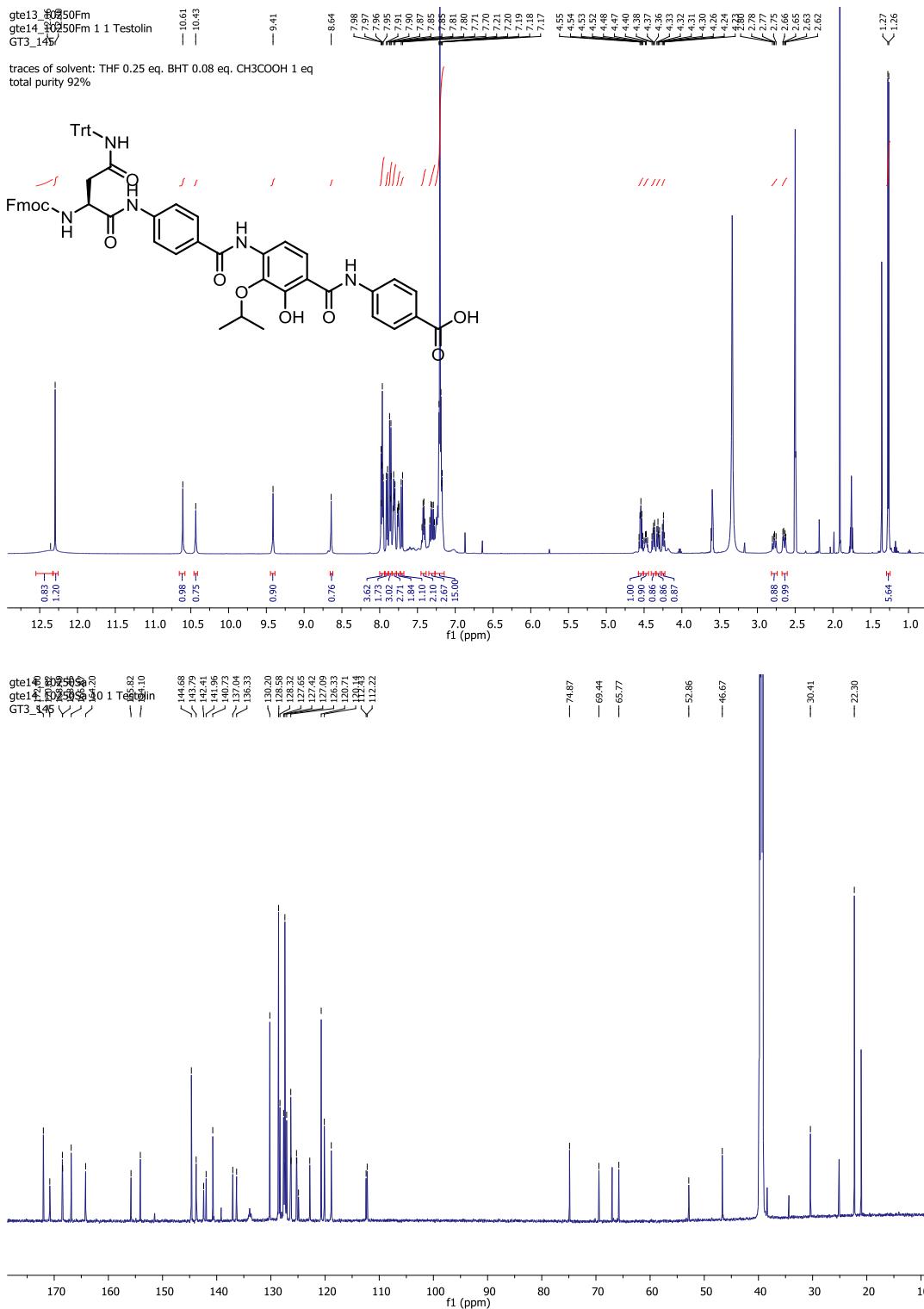
—155.80



Allyl (S)-4-(4-(2-(((9H-fluoren-9-yl)methoxy)carbonyl)amino)-4-oxo-4-(tritylamino)butanamido)benzamido-2-(allyloxy)-3-isopropoxybenzamido)benzoate

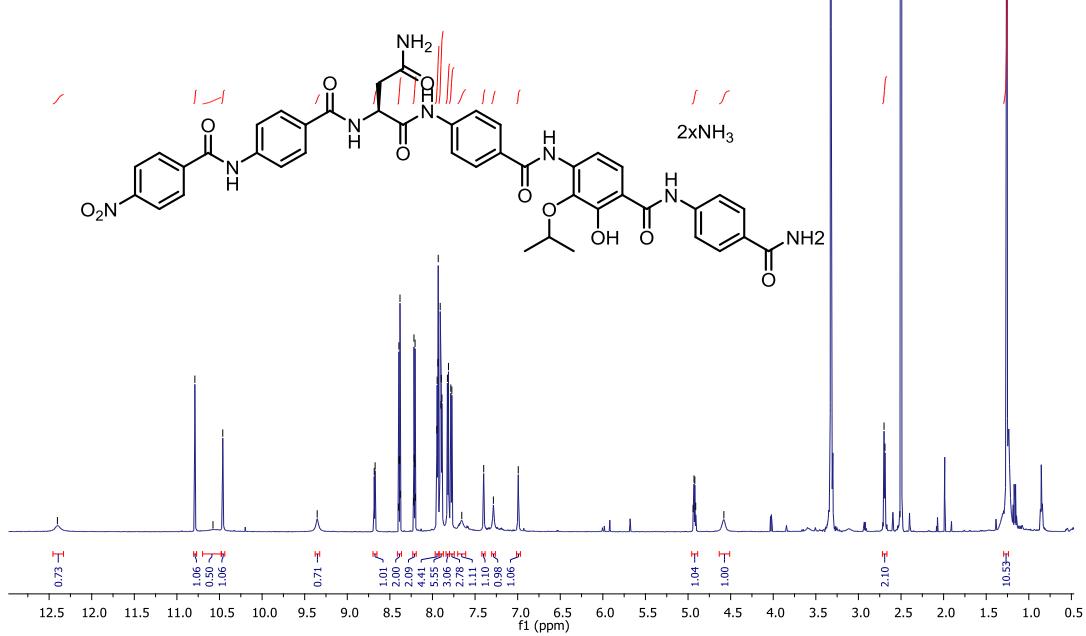


(S)-4-(4-(4-(2-(((9H-Fluoren-9-yl)methoxy)carbonyl)amino)-4-oxo-4-(tritylamino)butanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid

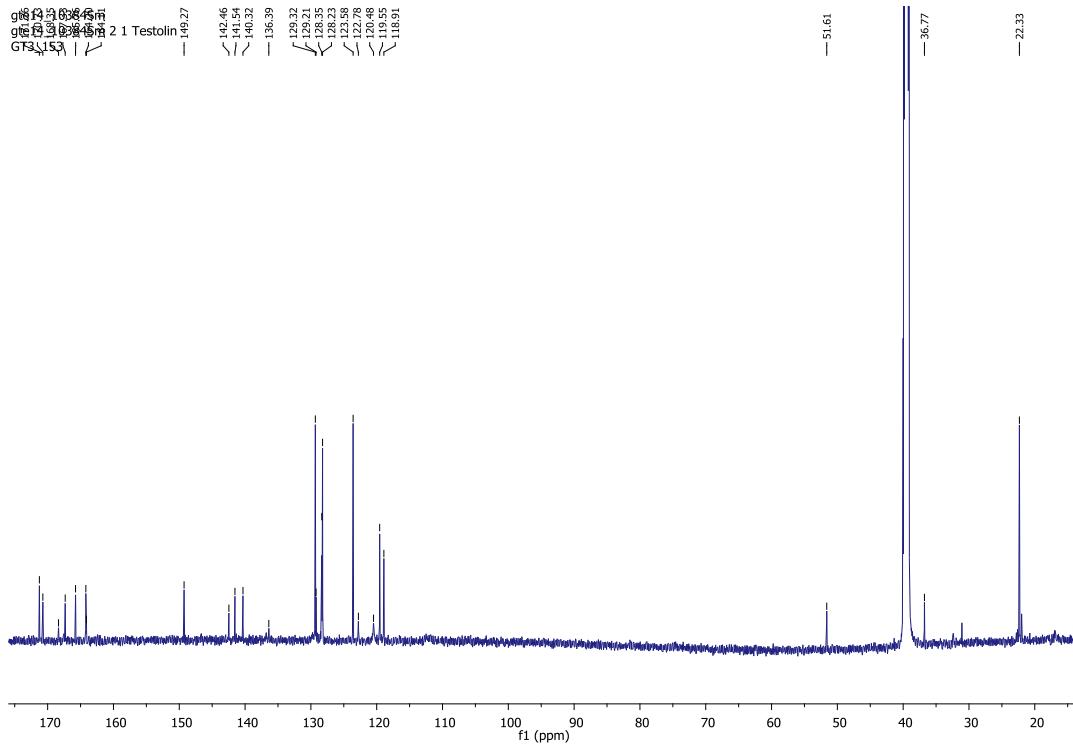


(S)-N1-(4-((4-Carbamoylphenyl)carbamoyl)-3-hydroxy-2-isopropoxyphenyl)carbamoyl)phenyl)-2-(4-(4-nitrobenzamido)benzamido)succinamide

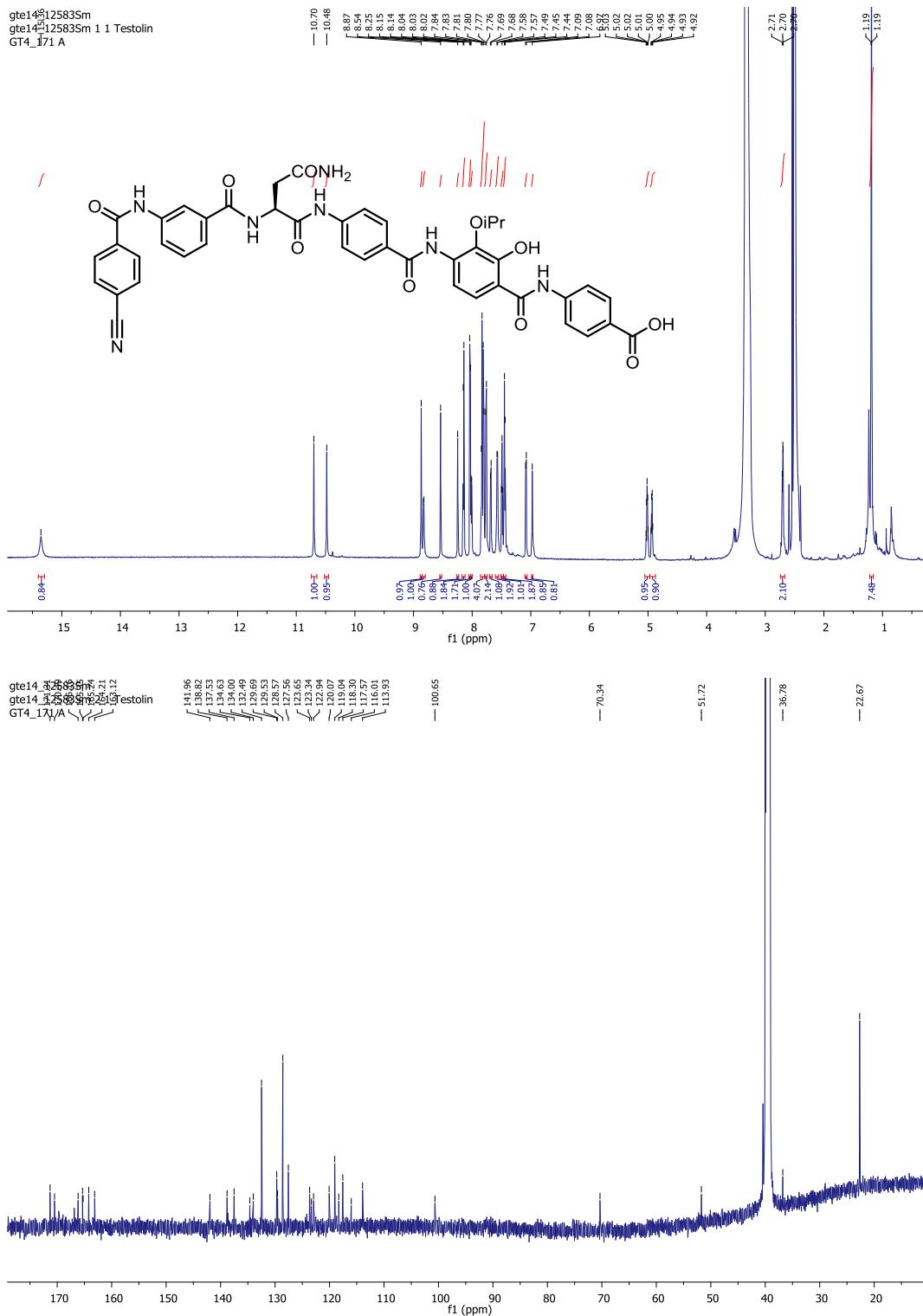
gte14_0384Sm
gte14_0384Sm 1 1 Testolin
GT3 153



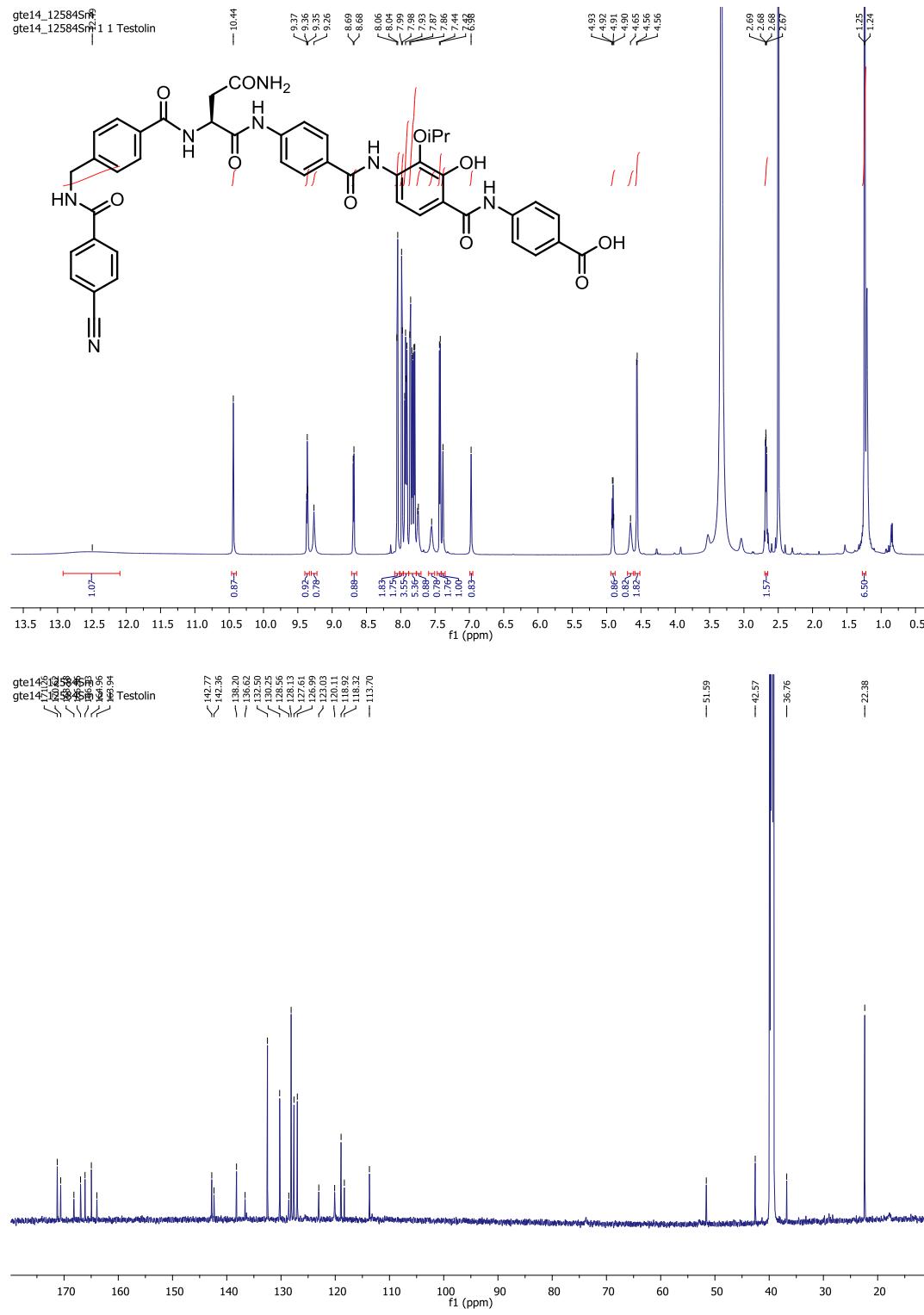
g98 f14.35	g98 f14.35	149.27
g98 f14.35	g98 f14.35	149.27
GT3-153	GT3-153	1 Testolin



(S)-4-(4-(4-Amino-2-(3-(4-cyanobenzamido)benzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid



(S)-4-(4-(4-Amino-2-(4-((4-cyanobenzamido)methyl)benzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid

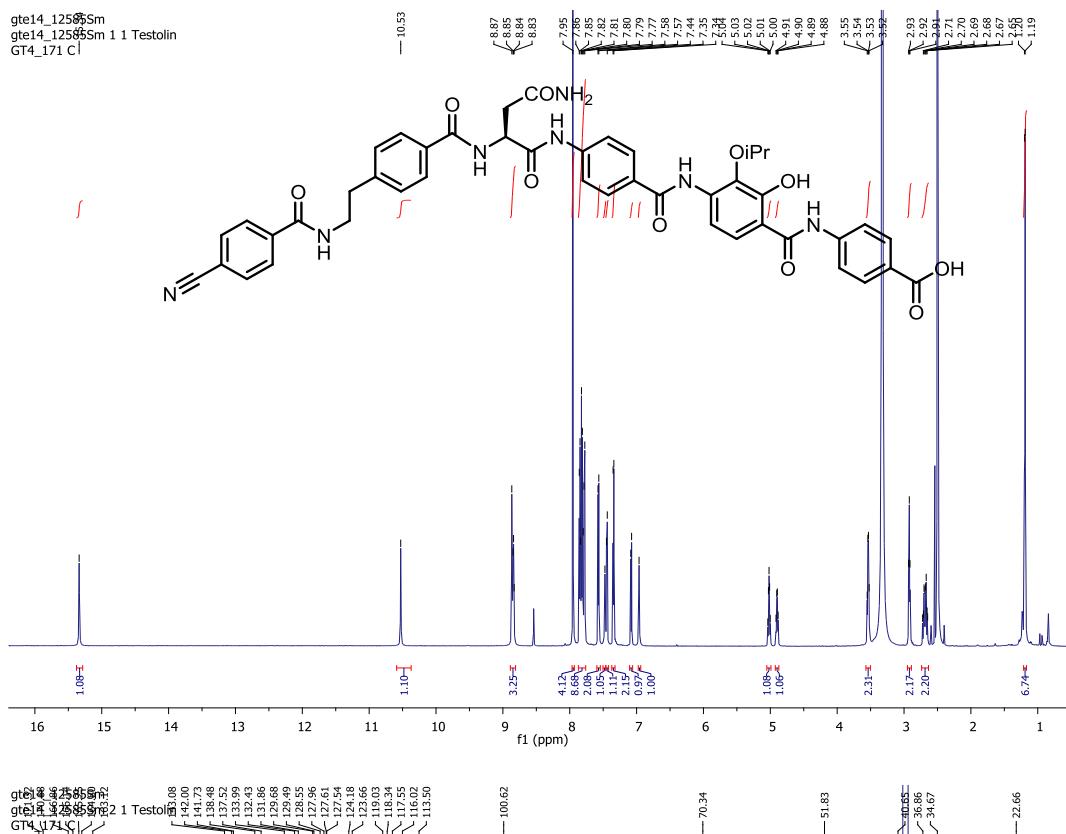


(S)-4-(4-(4-Amino-2-(4-(2-(4-cyanobenzamido)ethyl)benzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid

gte14_1258Sm

gte14_1258Sm 1 Testolin

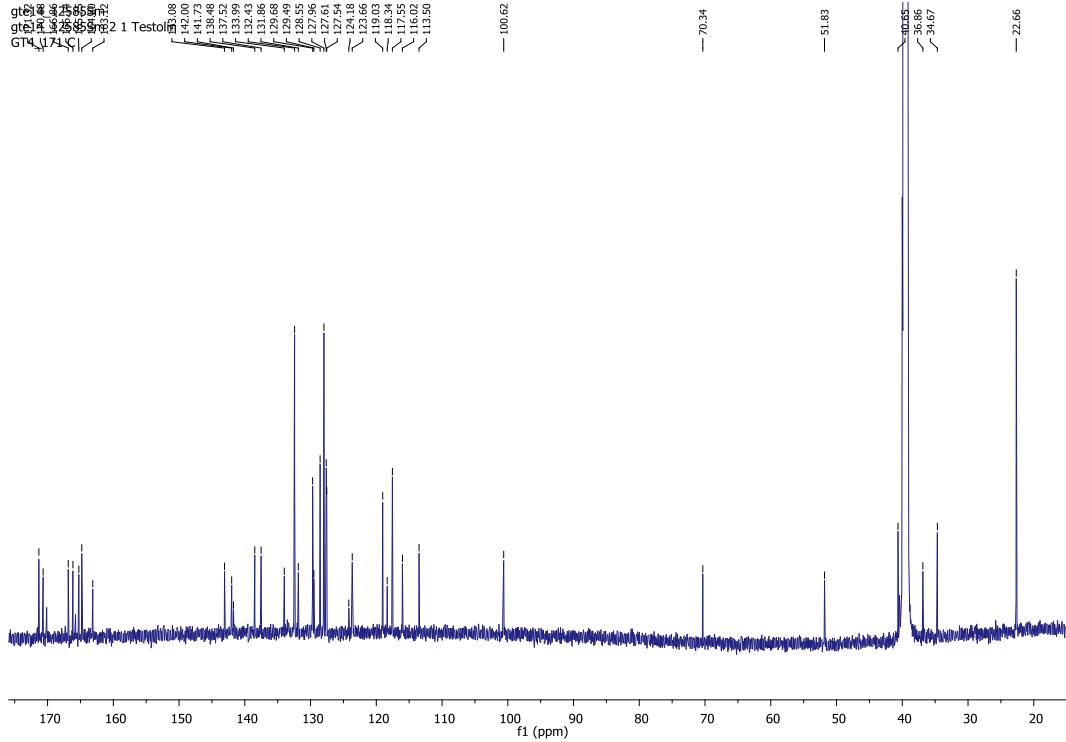
GT4_171 C



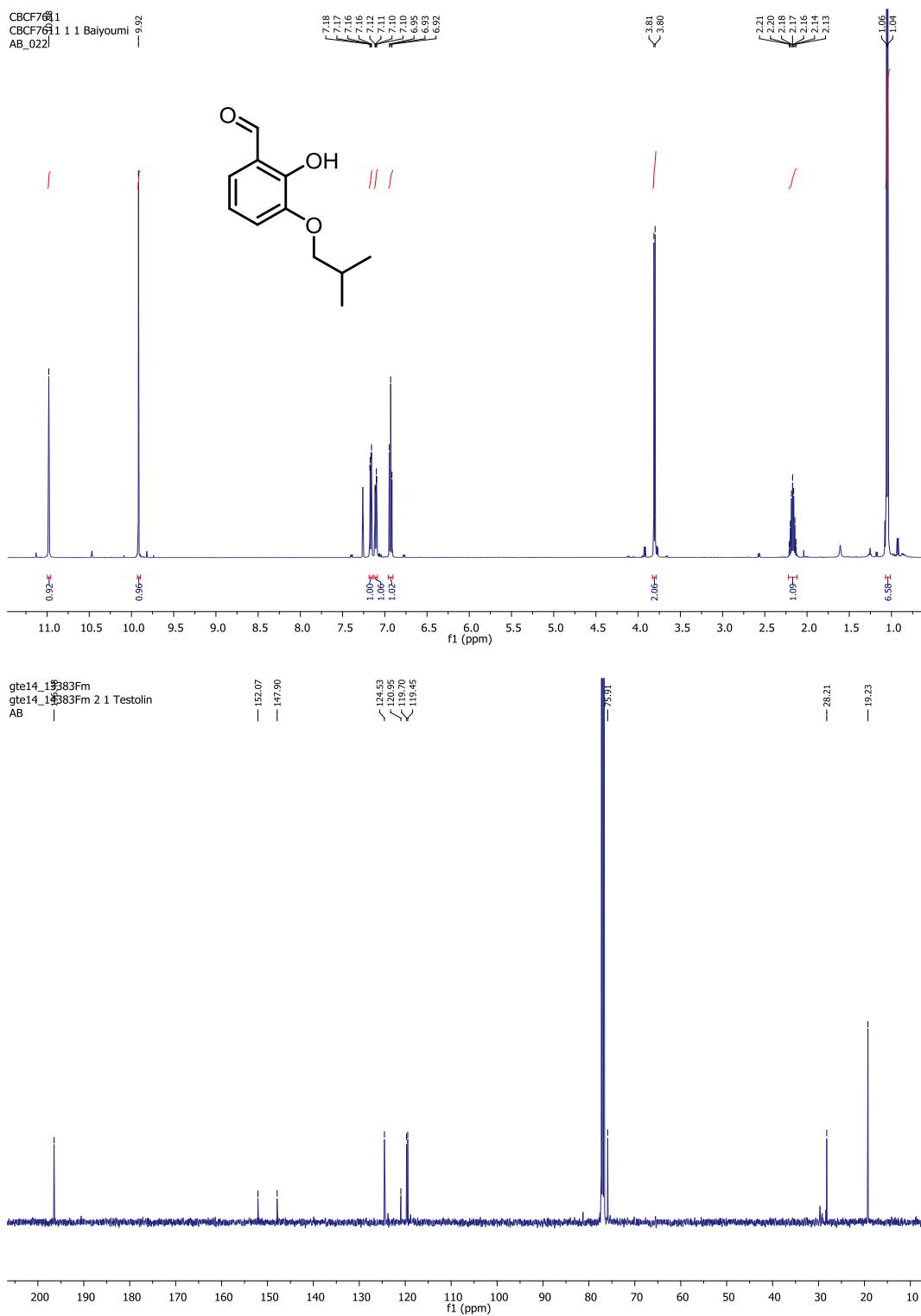
gte14_1258Sm

gte14_1258Sm 2 1 Testolin

GT4_171 C

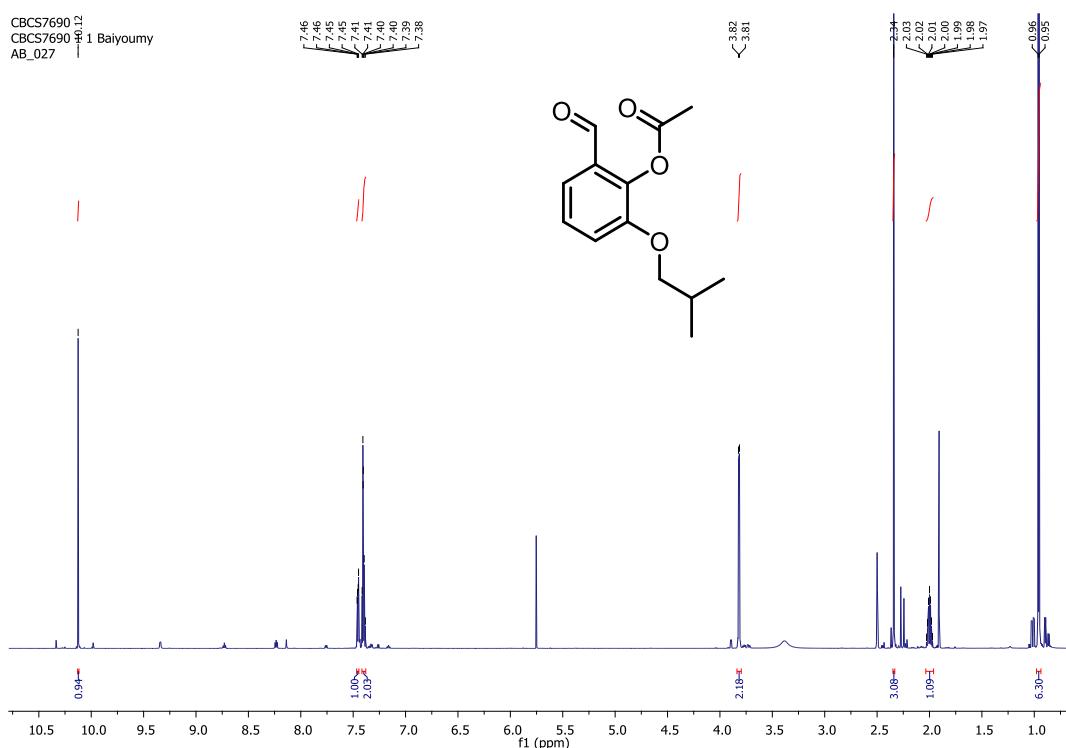


2-Hydroxy-3-isobutoxybenzaldehyde

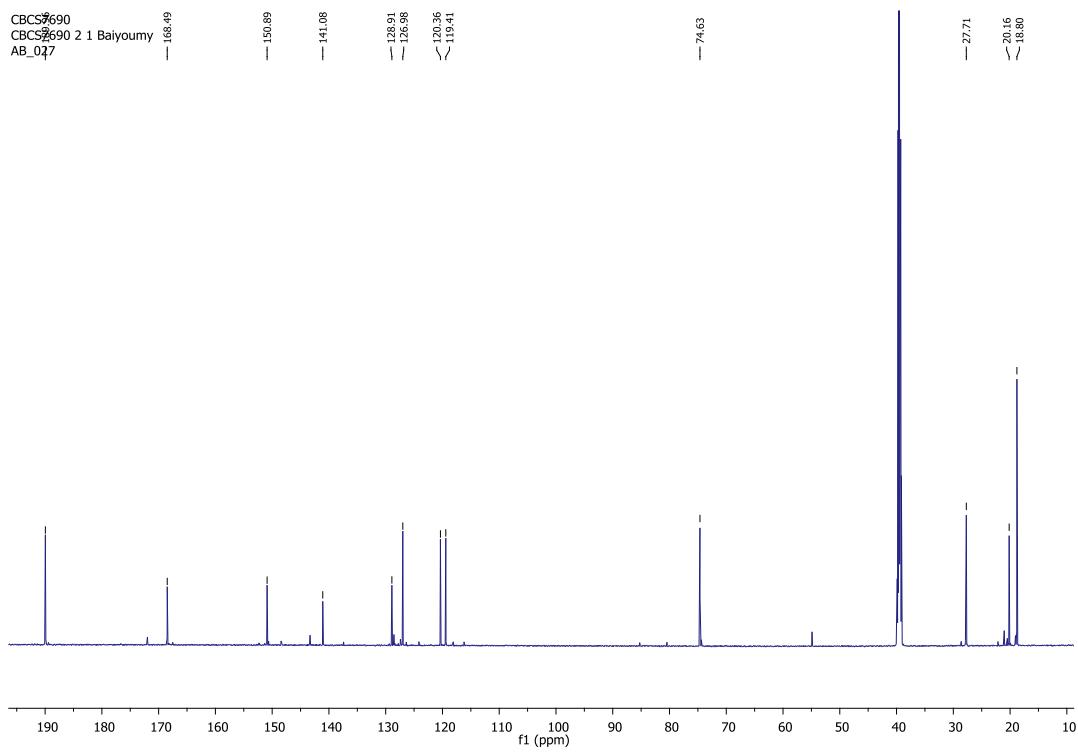


2-Formyl-6-isobutoxyphenyl acetate

CBCS7690 12
CBCS7690 2 1 Baioumy
AB_027



CBCS7690
CBCS7690 2 1 Baioumy
AB_027



6-Formyl-2-isobutoxy-3-nitrophenyl acetate

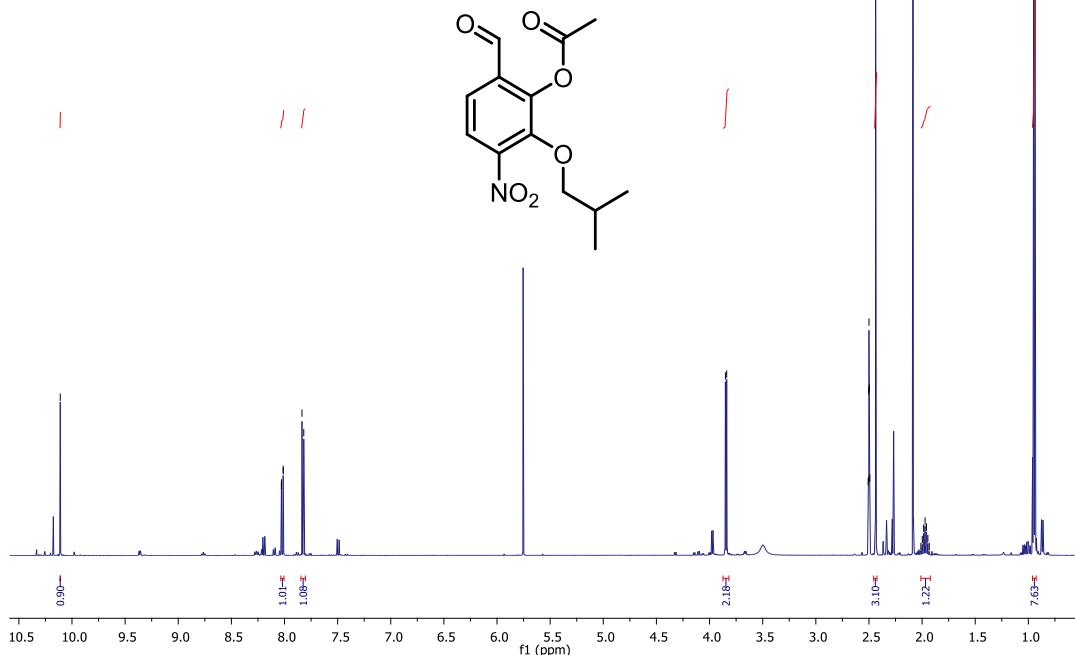
CBCF7695
CBCF7695 1 1 Bajyoumi
AB_032 |

8.03
8.03
8.01
8.01
7.84
7.82

< 3.85
< 3.84

2.51
2.50
2.50
2.49
2.49
2.44
2.44
2.01
2.01
2.00
1.99
1.97
1.96
1.95
1.93

< 0.94



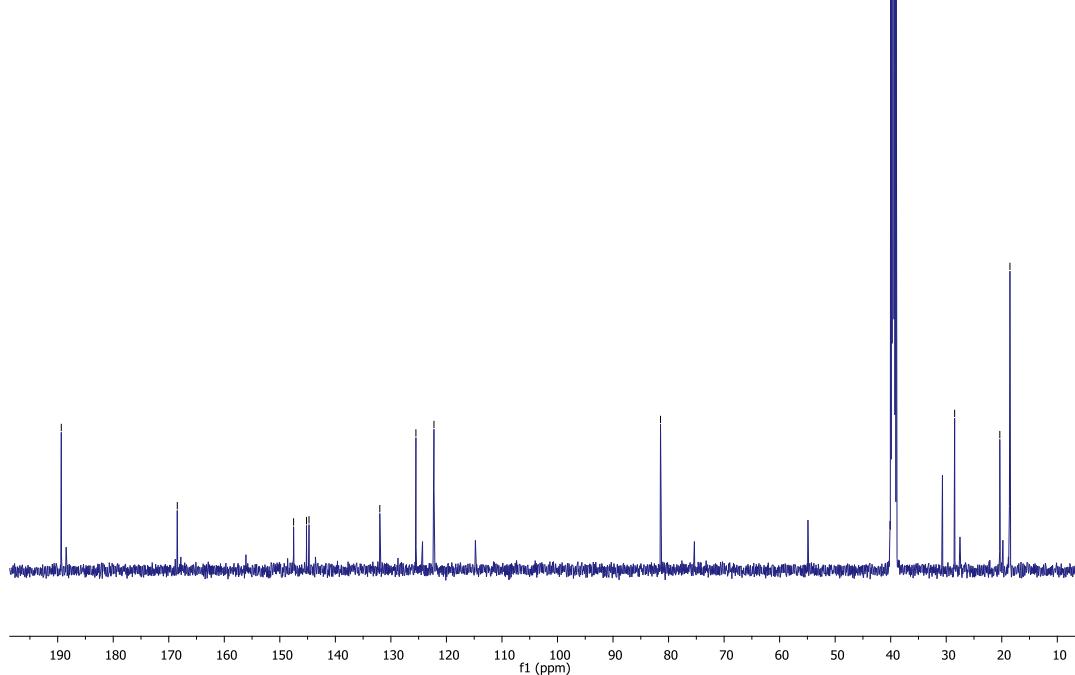
CBCF7695
CBCF7695 2 1 Bajyoumi
AB_032 |

147.52
> 145.70
< 144.74

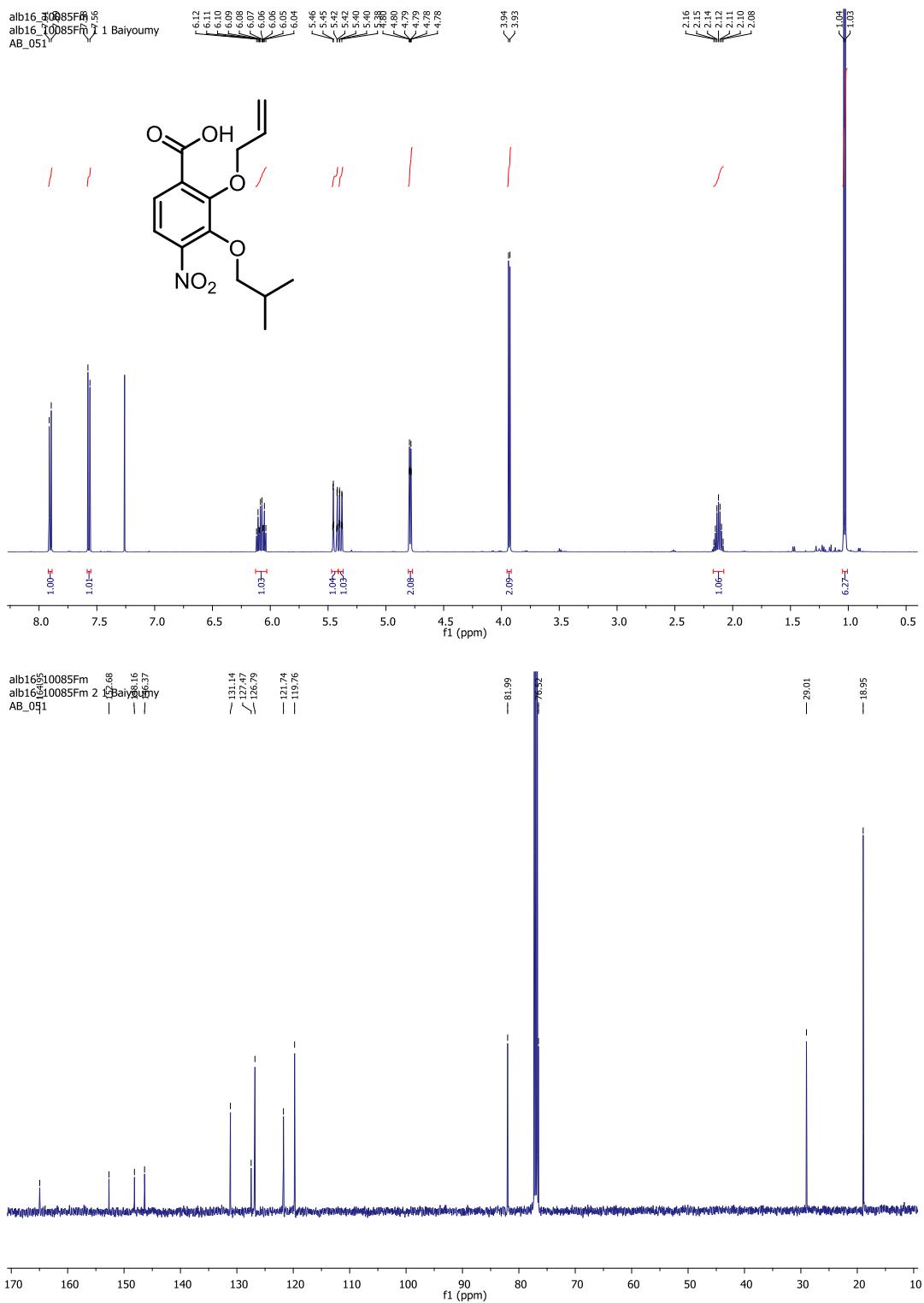
— 131.99
— 125.49
— 122.25

— 81.45

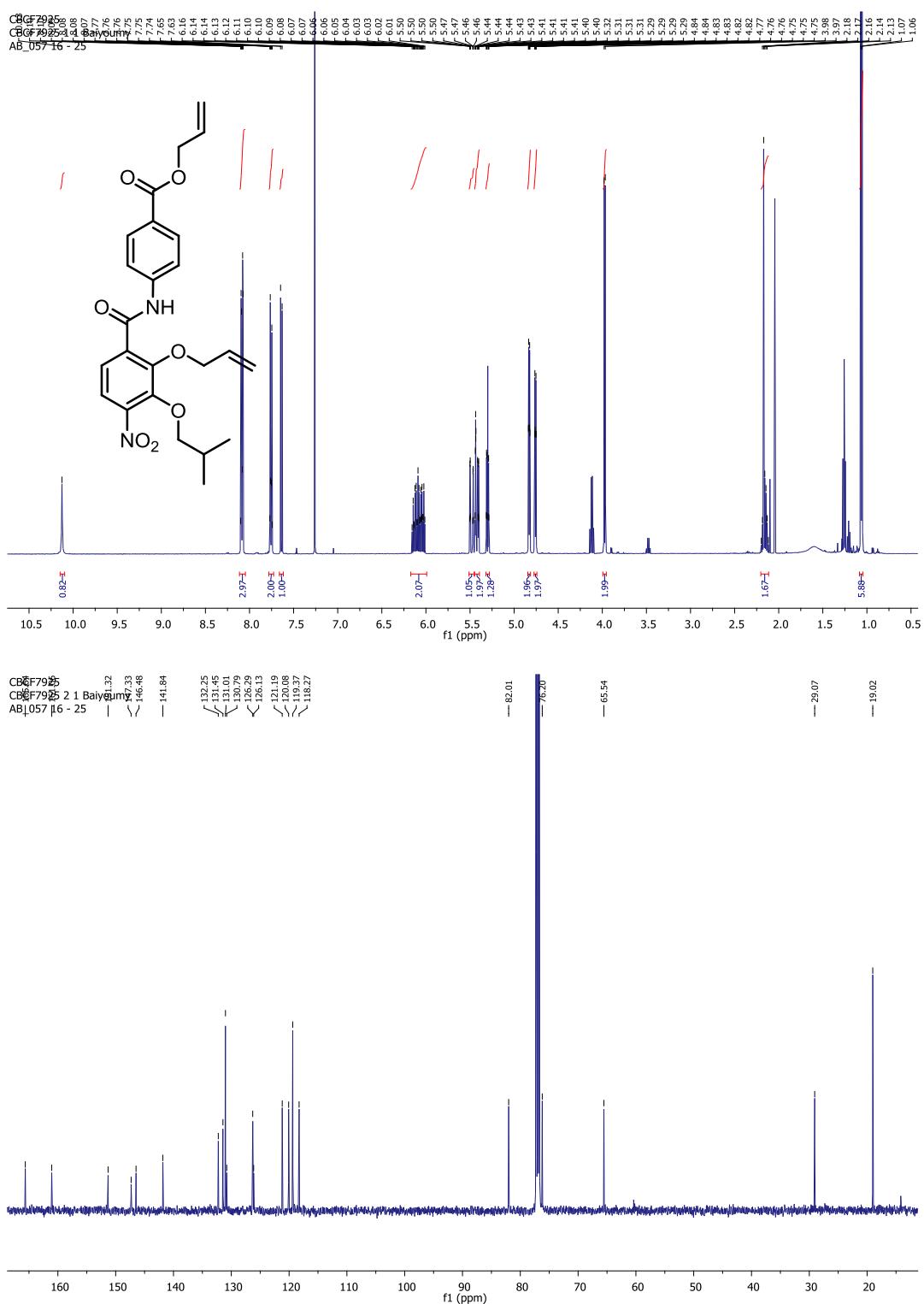
— 28.49
— 20.35
— 18.53



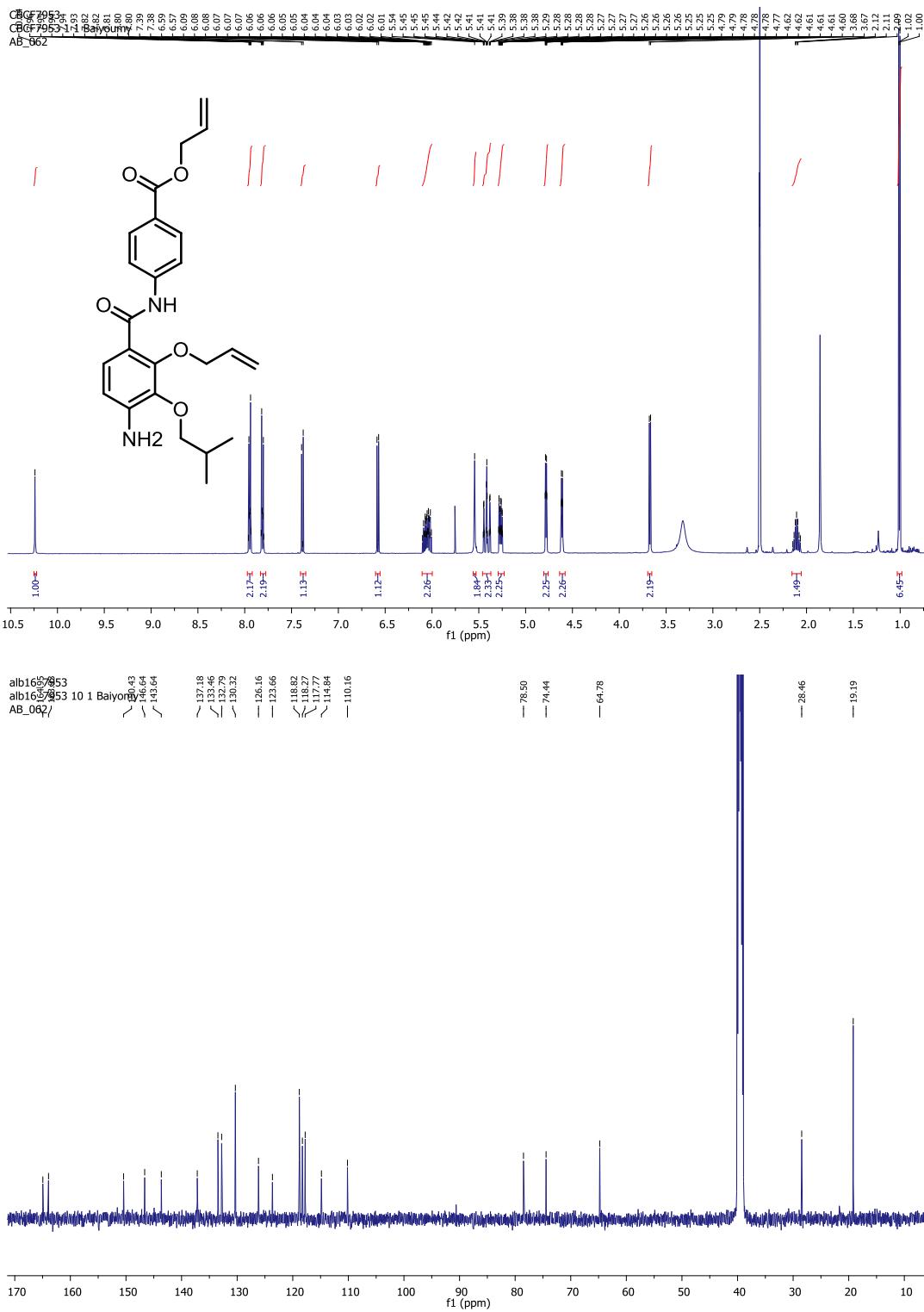
2-(Allyloxy)-3-isobutoxy-4-nitrobenzoic acid



Allyl 4-(2-(allyloxy)-3-isobutoxy-4-nitrobenzamido)benzoate



Allyl 4-(2-(allyloxy)-4-amino-3-isobutoxybenzamido)benzoate

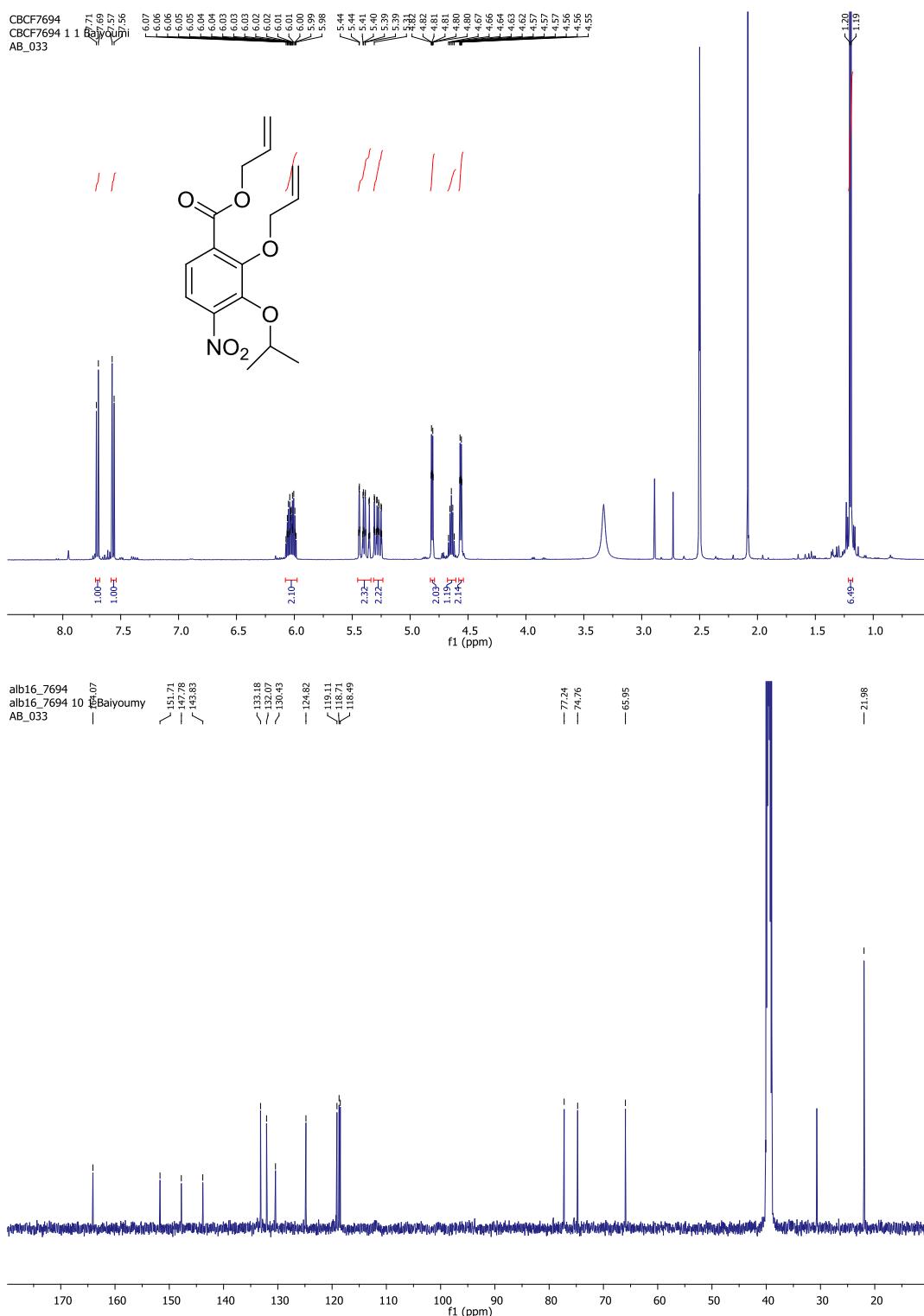


Allyl 2-(allyloxy)-3-isopropoxy-4-nitrobenzoate

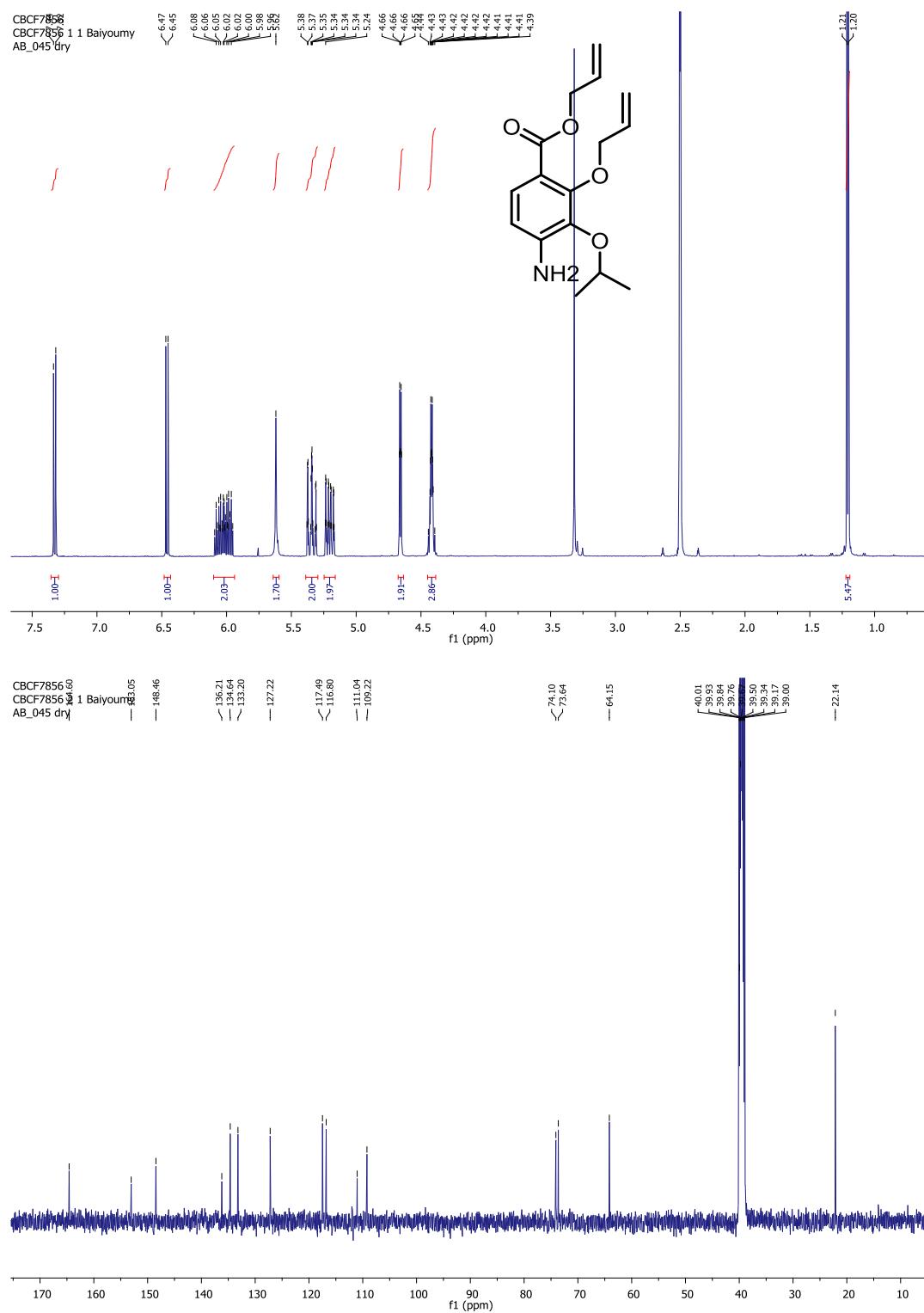
CBCF7694

CBCF7694 1 1

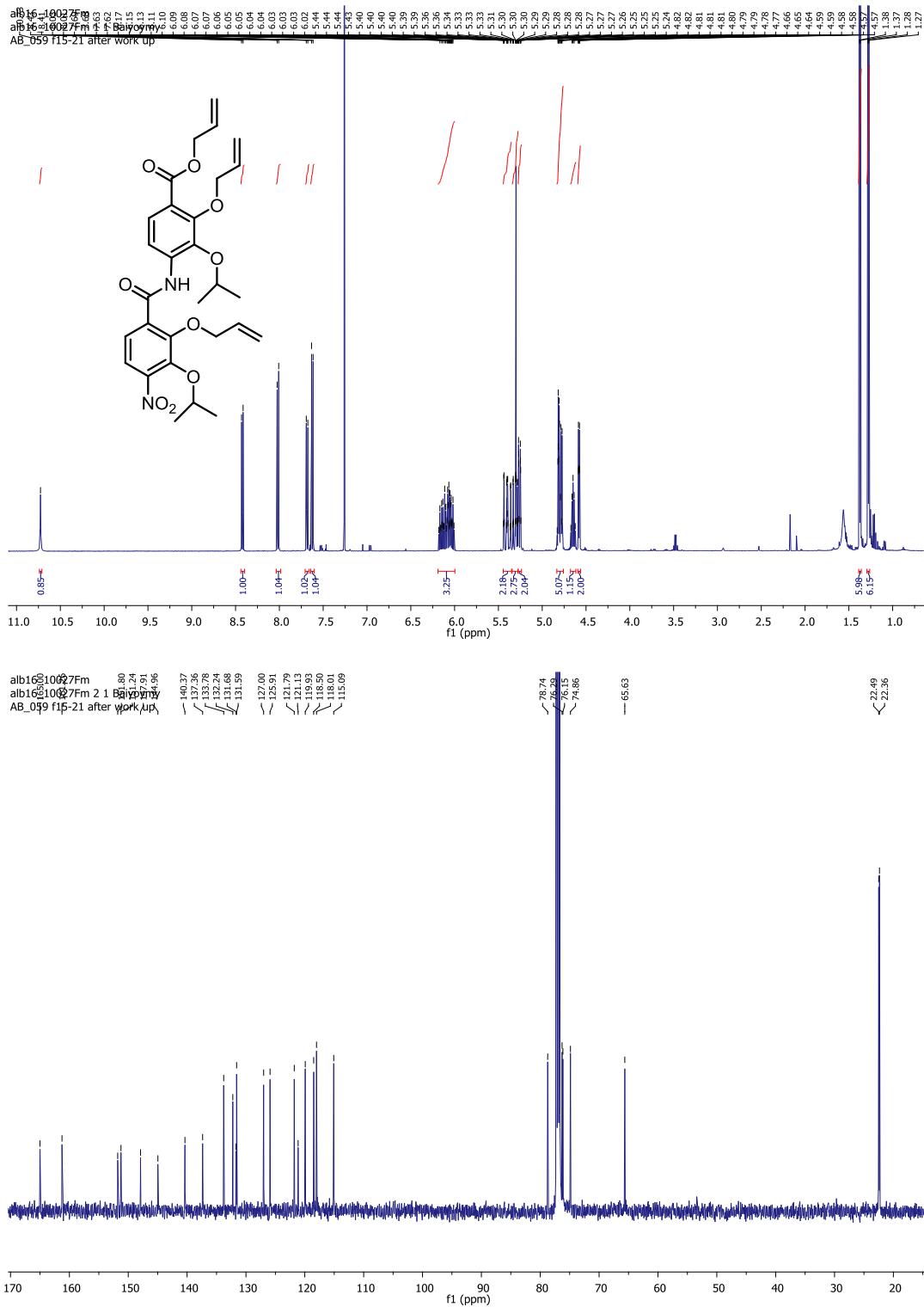
AB_033



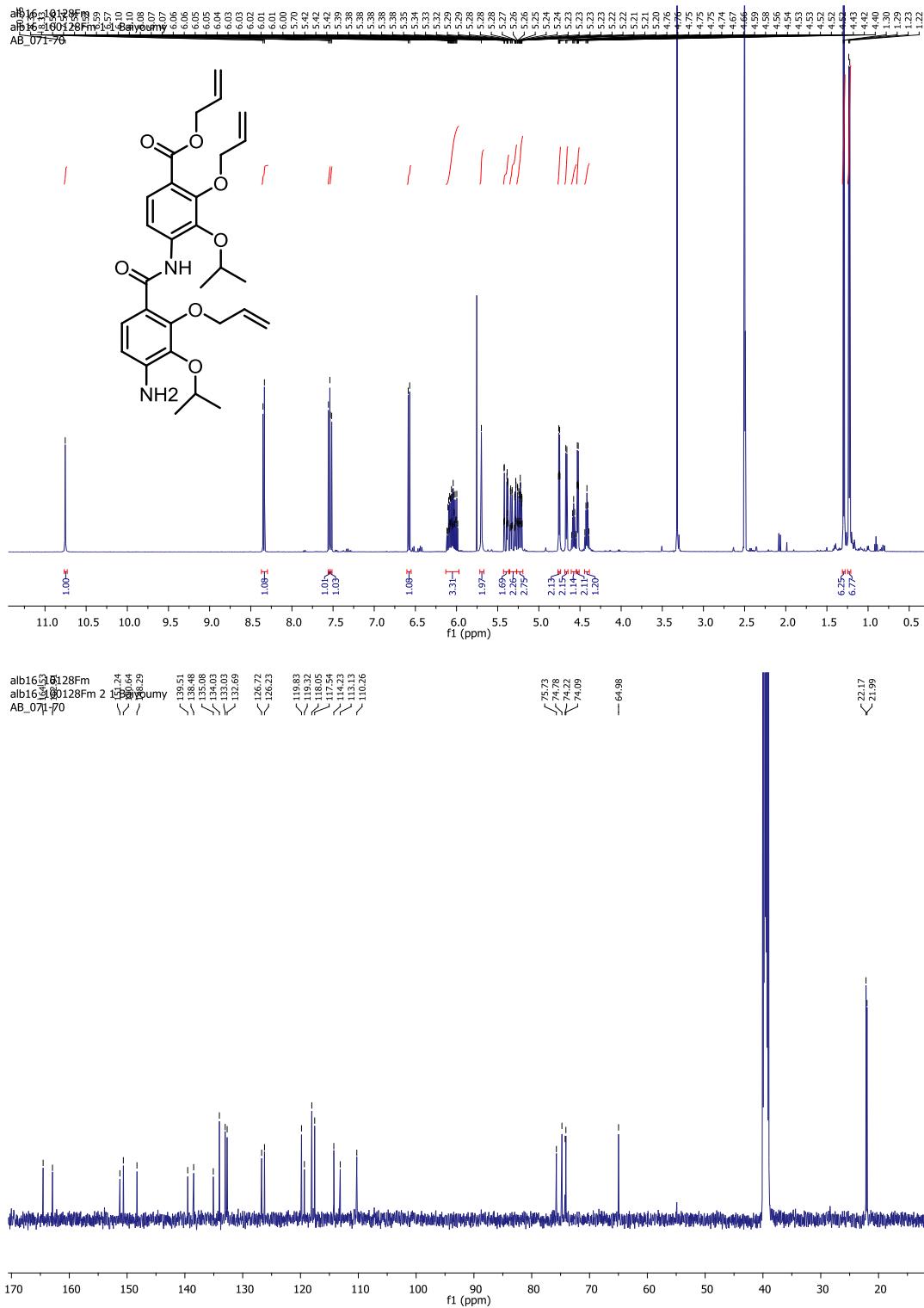
Allyl 2-(allyloxy)-4-amino-3-isopropoxybenzoate



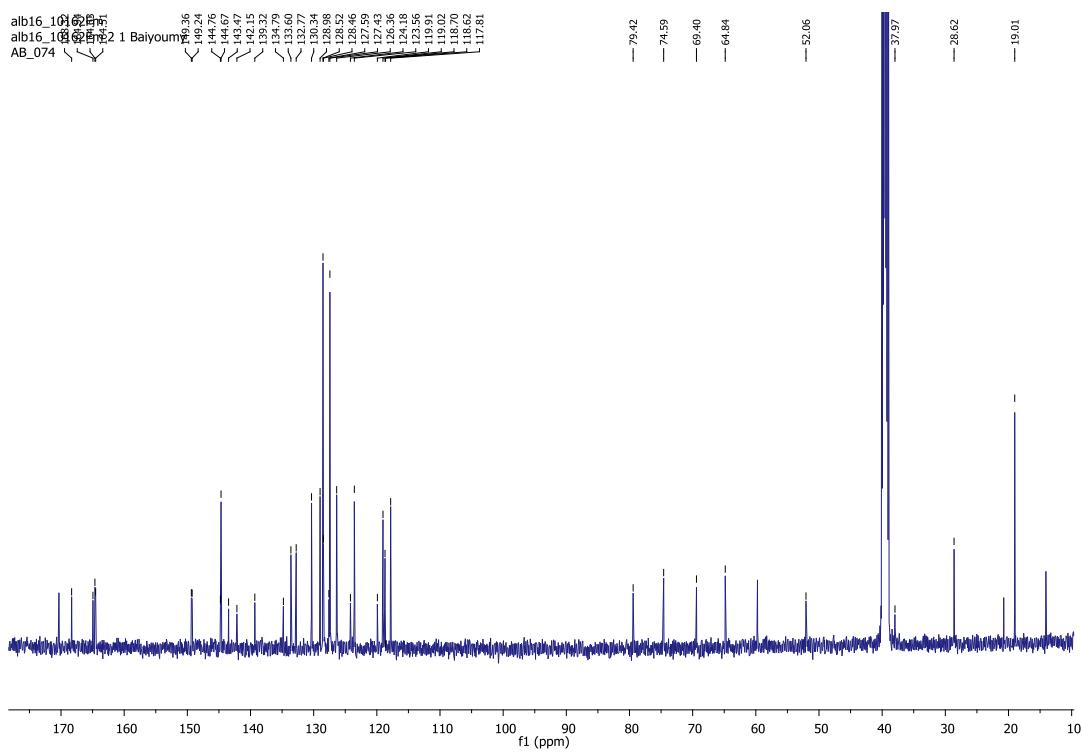
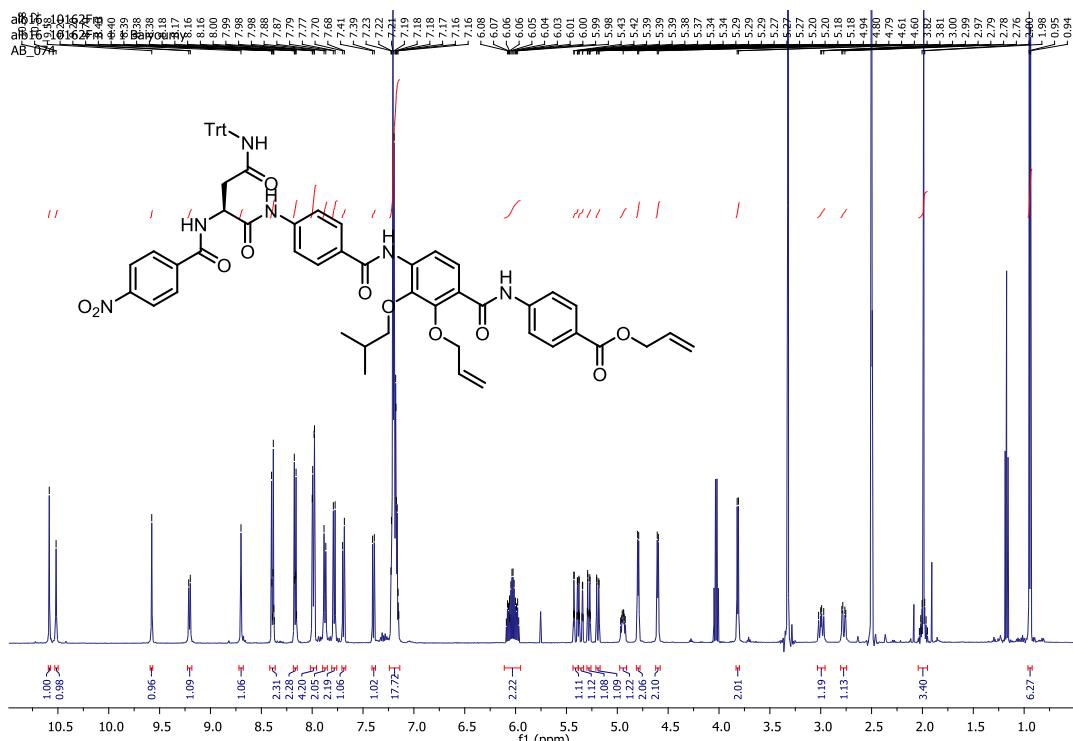
Allyl 2-(allyloxy)-4-(2-(allyloxy)-3-isopropoxy-4-nitrobenzamido)-3-isopropoxybenzoate



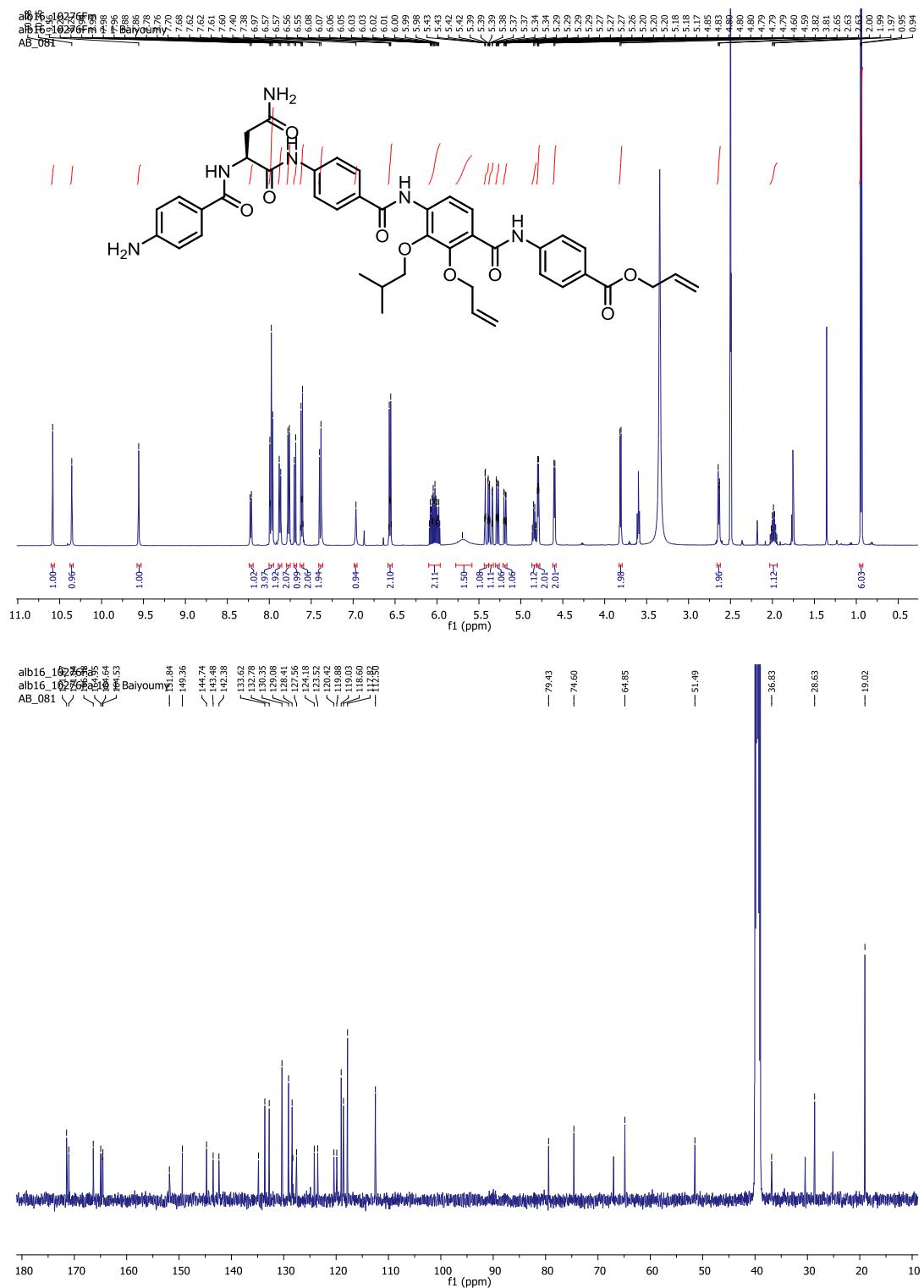
Allyl 2-(allyloxy)-4-(2-(allyloxy)-4-amino-3-isopropoxybenzamido)-3-isopropoxybenzoate



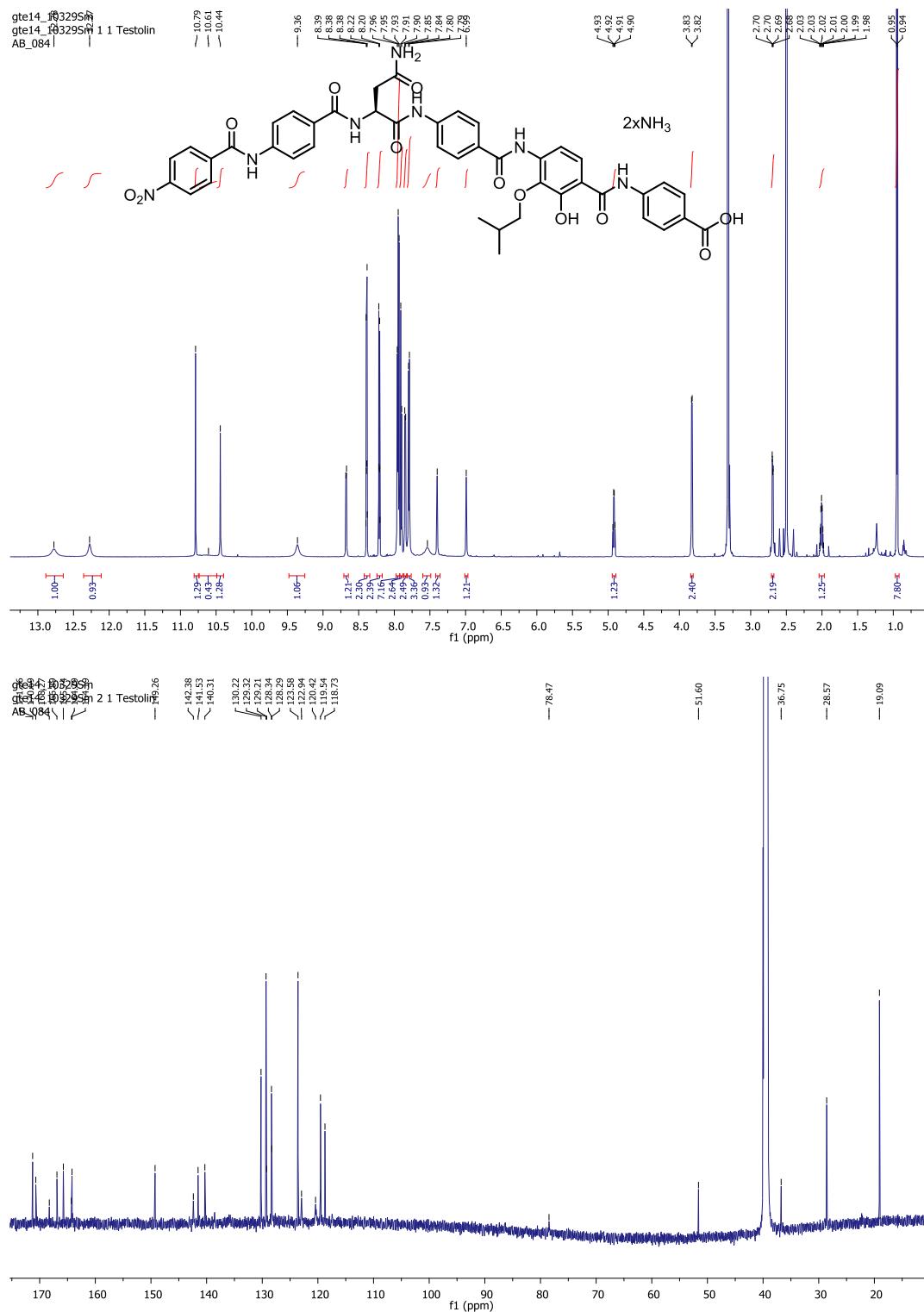
Allyl (S)-4-(2-(allyloxy)-3-isobutoxy-4-(4-(2-(4-nitrobenzamido)-4-oxo-4-(tritylamino)butanamido)benzamido)benzamido)benzoate



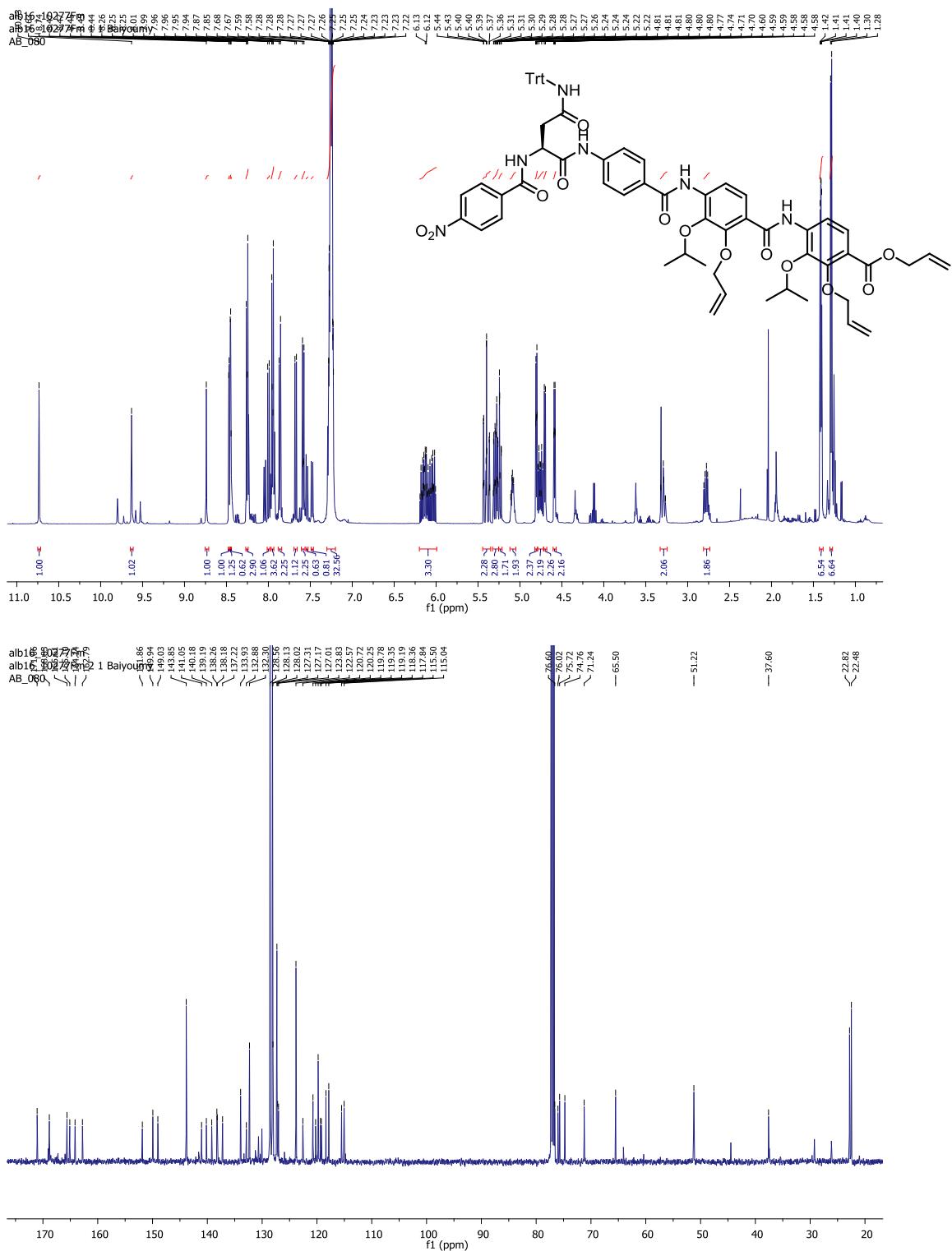
Allyl (S)-4-(2-(allyloxy)-4-(4-amino-2-(4-aminobenzamido)-4-oxobutanamido)benzamido)-3-isobutoxybenzamido)benzoate



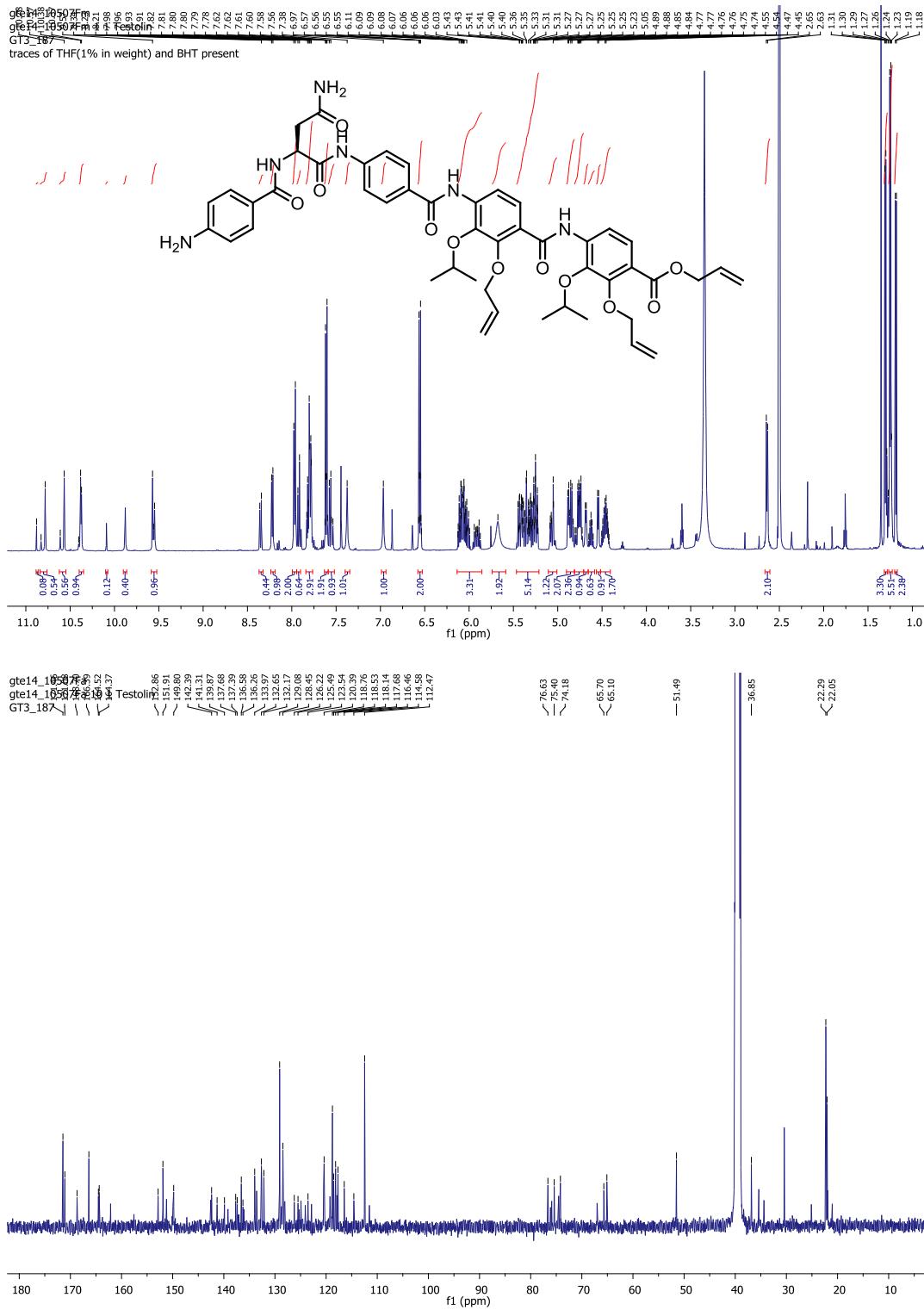
(S)-4-(4-(4-Amino-2-(4-(4-nitrobenzamido)benzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isobutoxybenzamido)benzoic acid



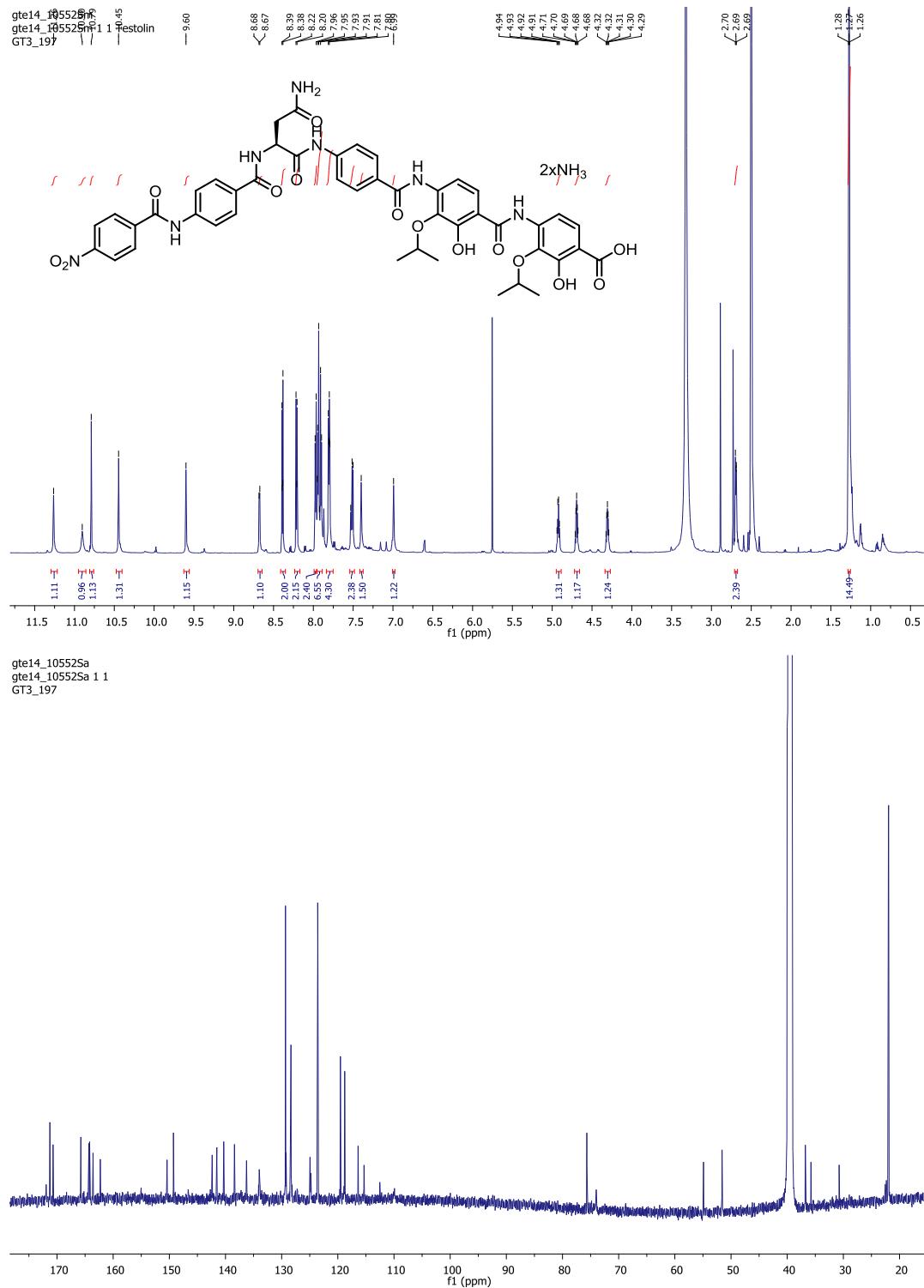
Allyl (S)-2-(allyloxy)-4-(2-(allyloxy)-3-isopropoxy-4-(4-(2-(4-nitrobenzamido)-4-oxo-4-(tritylamino)butanamido)benzamido)benzamido)-3-isopropoxybenzoate



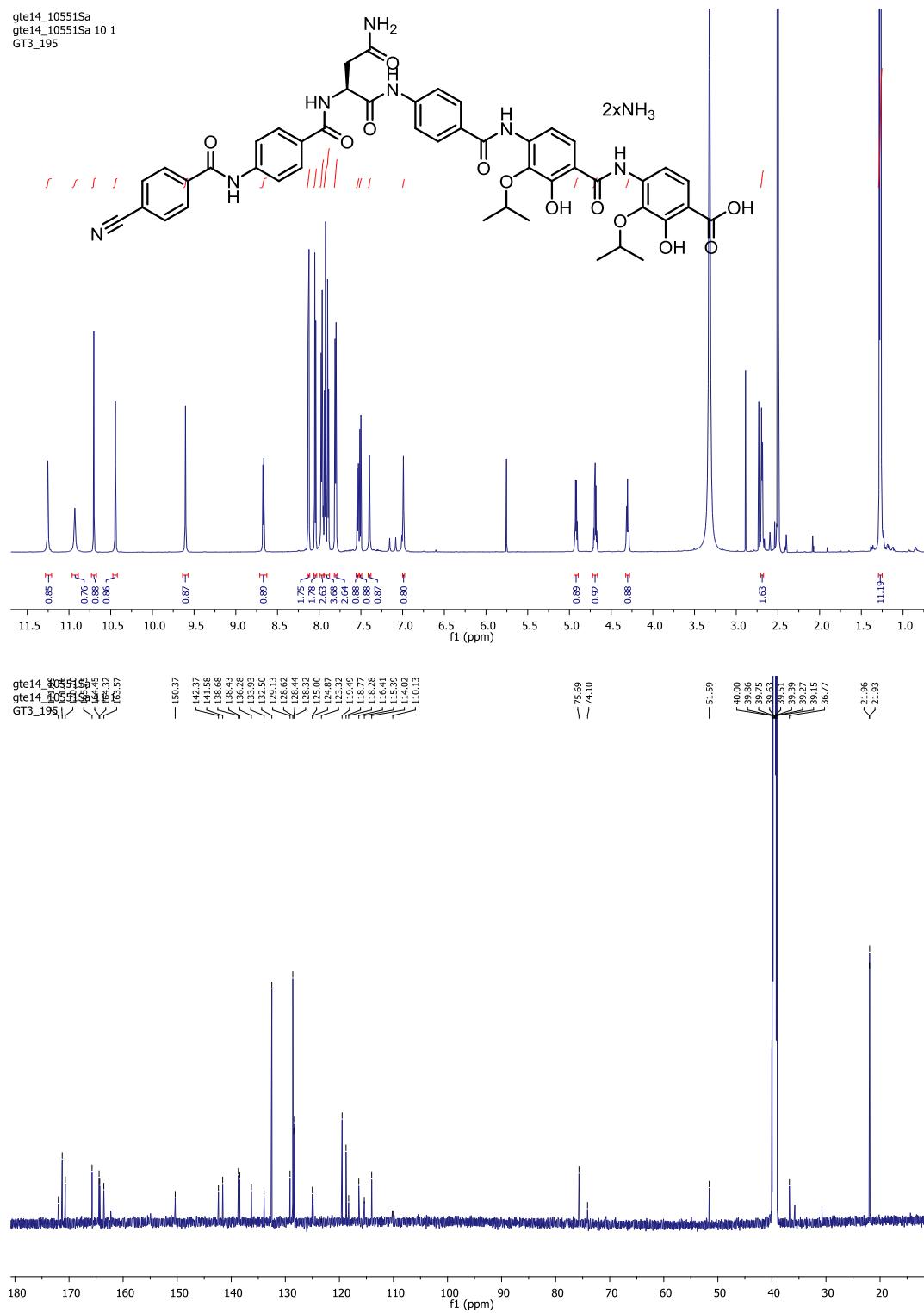
Allyl (S)-2-(allyloxy)-4-(2-(allyloxy)-4-(4-amino-2-(4-aminobenzamido)-4-oxobutanamido)benzamido)-3-isopropoxybenzamido)-3-isopropoxybenzoate



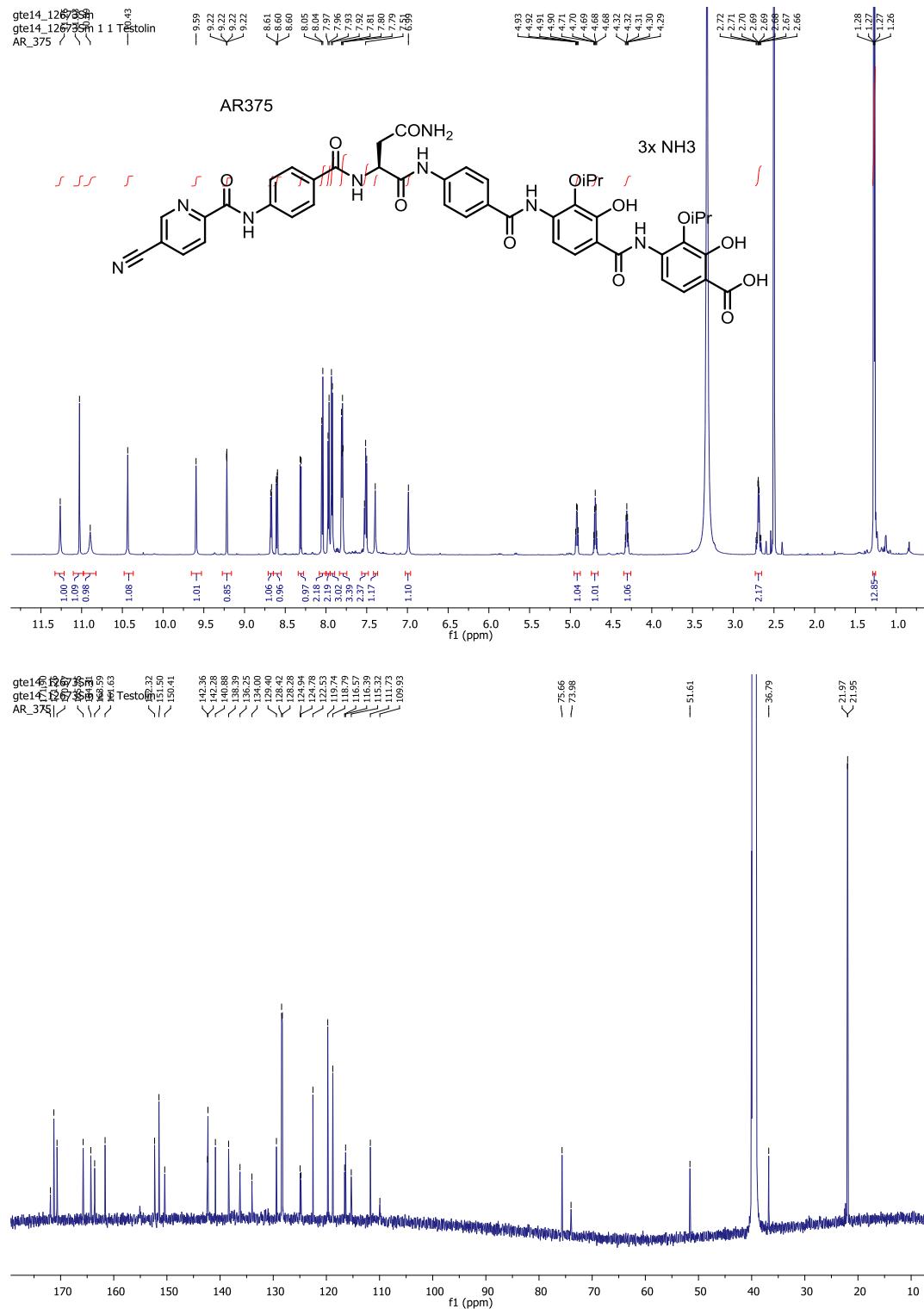
(S)-4-(4-(4-Amino-2-(4-(4-nitrobenzamido)benzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido acid



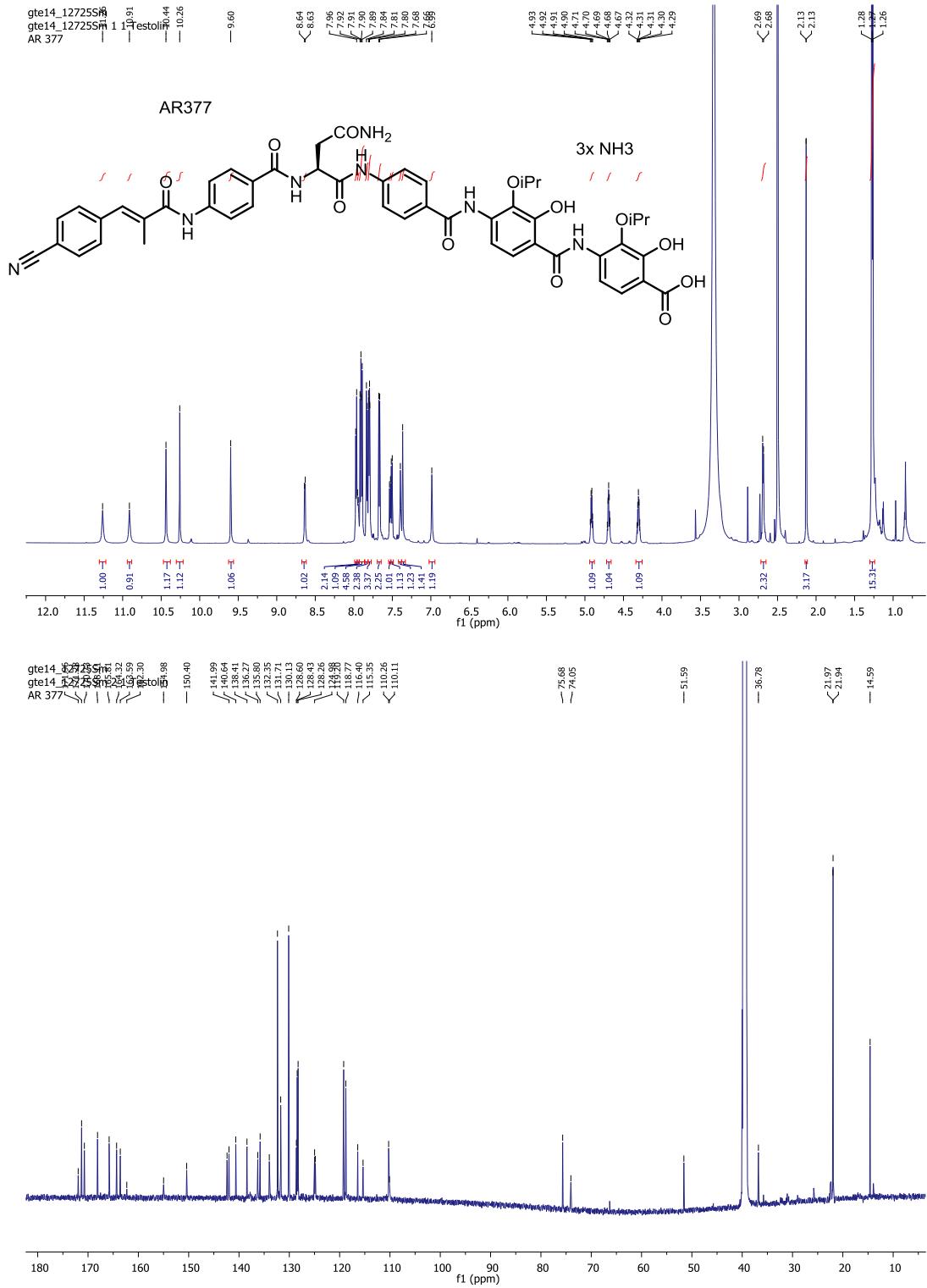
(S)-4-(4-(4-Amino-2-(4-(4-cyanobenzamido)benzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)-2-hydroxy-3-isopropoxybenzoic acid



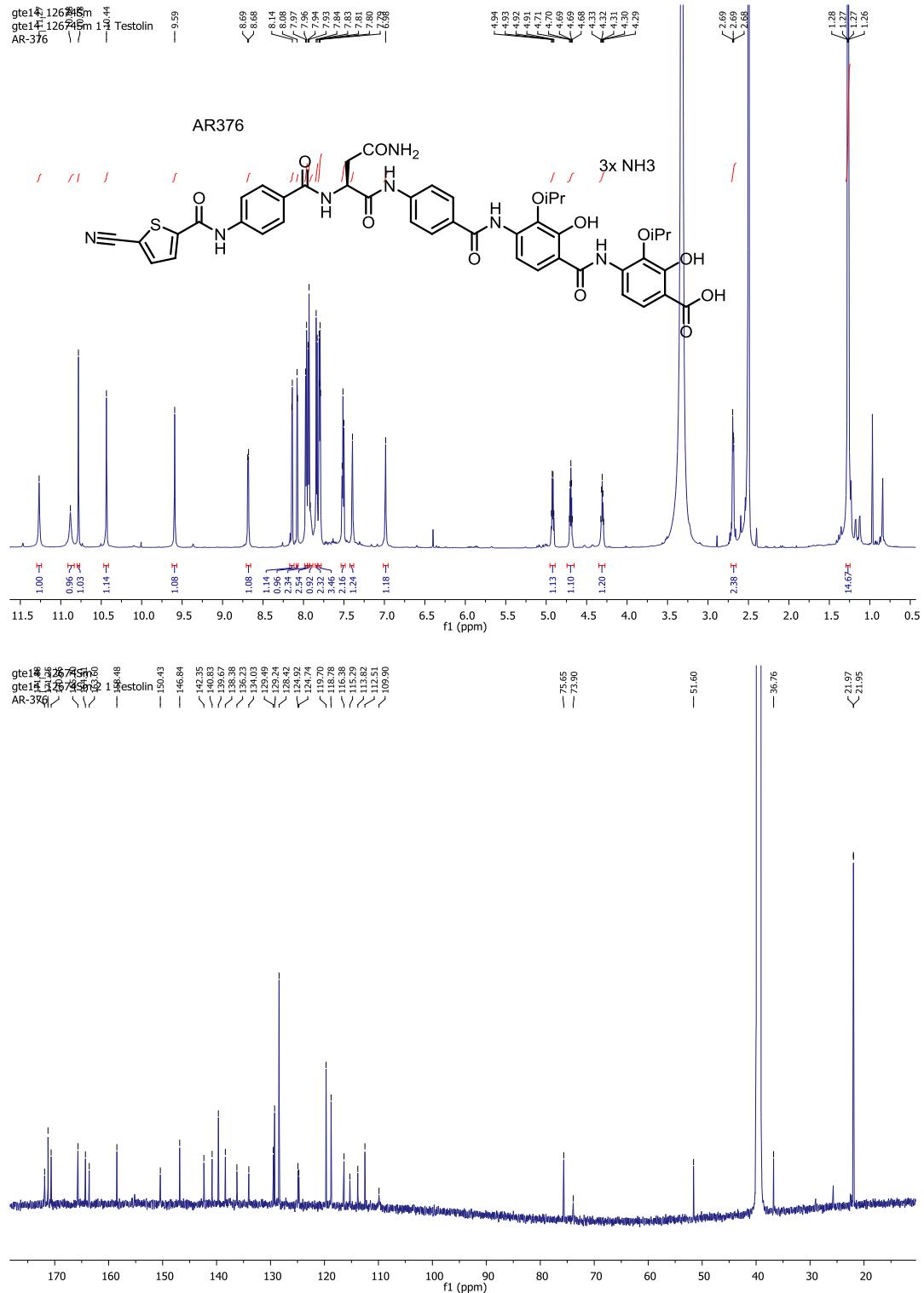
(S)-4-(4-(4-Amino-2-(4-(5-cyanopicolinamido)benzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)-2-hydroxy-3-isopropoxybenzoic acid



(S,E)-4-(4-(4-Amino-2-(4-(3-(4-cyanophenyl)-2-methylacrylamido)benzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)-2-hydroxy-3-isopropoxybenzoic acid



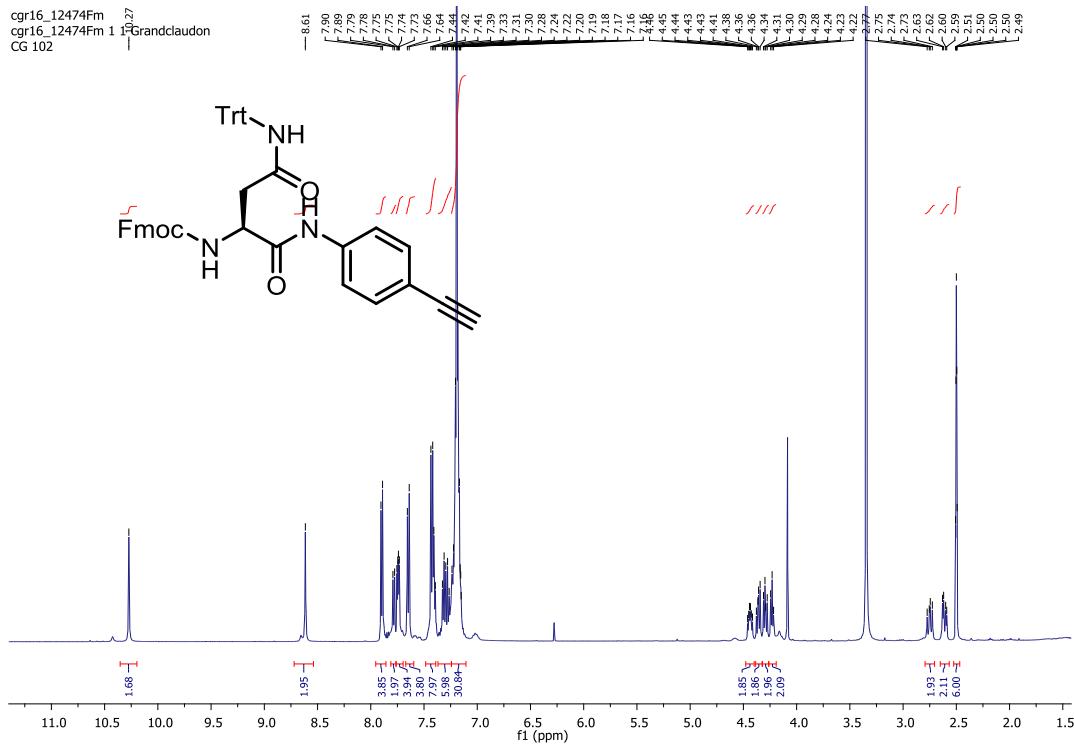
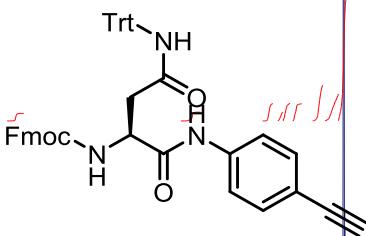
(S)-4-(4-(4-Amino-2-(4-(5-cyanothiophene-2-carboxamido)benzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)-2-hydroxy-3-isopropoxybenzoic acid



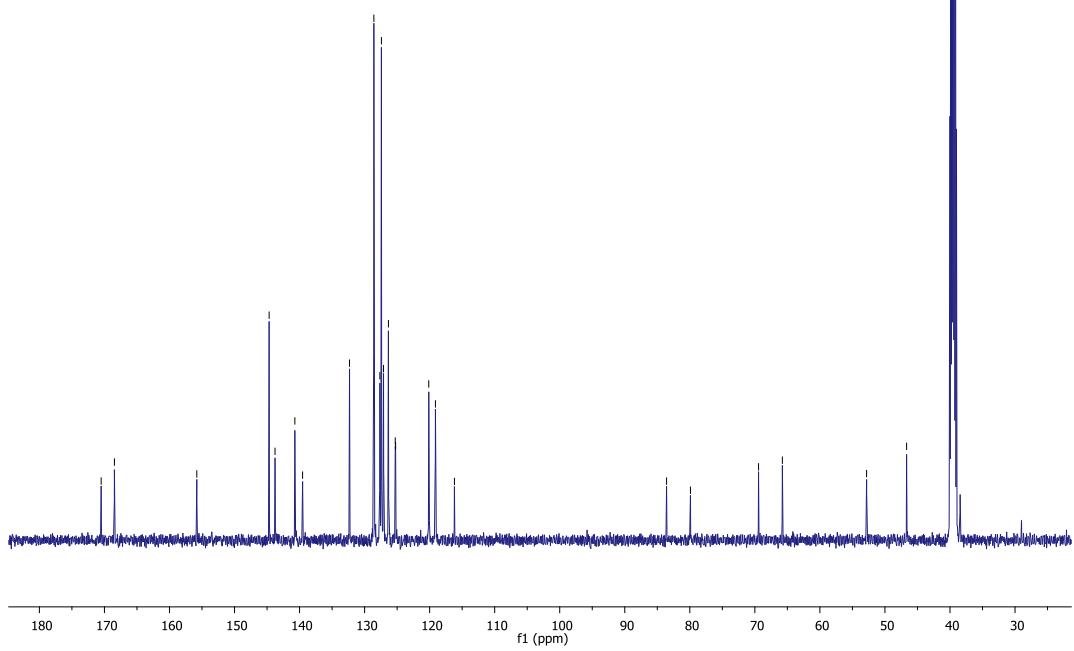
(9H-Fluoren-9-yl)methyl yl)carbamate

(1-((4-ethynylphenyl)amino)-1,4-dioxo-4-(tritylamo)butan-2-

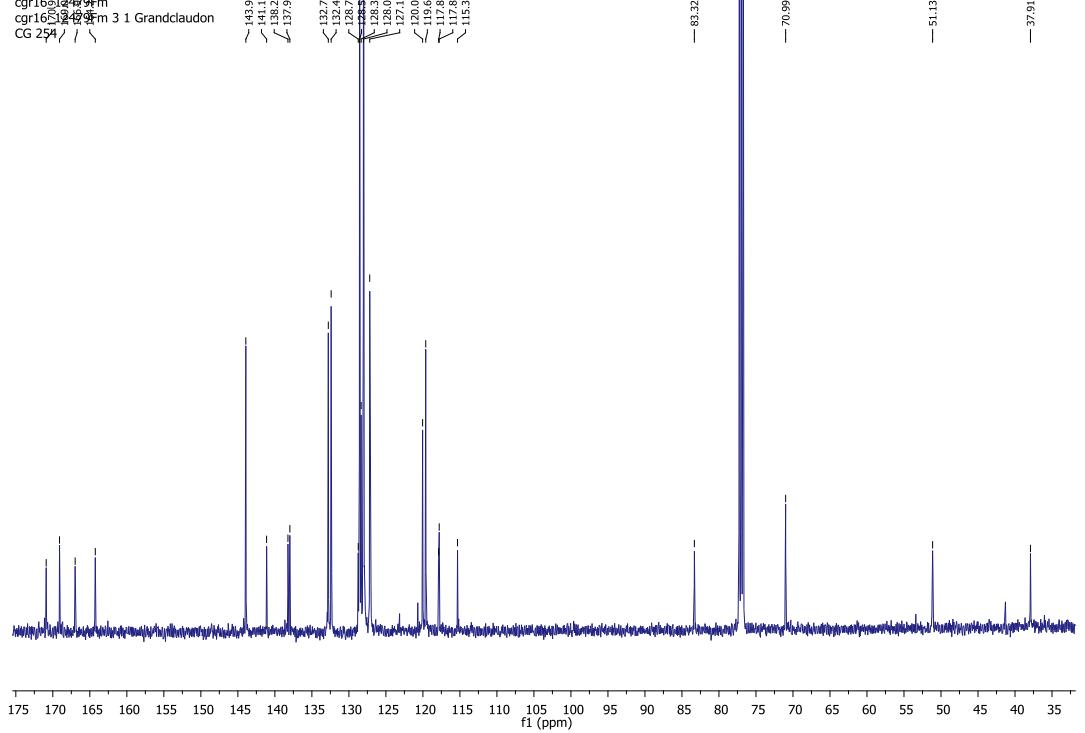
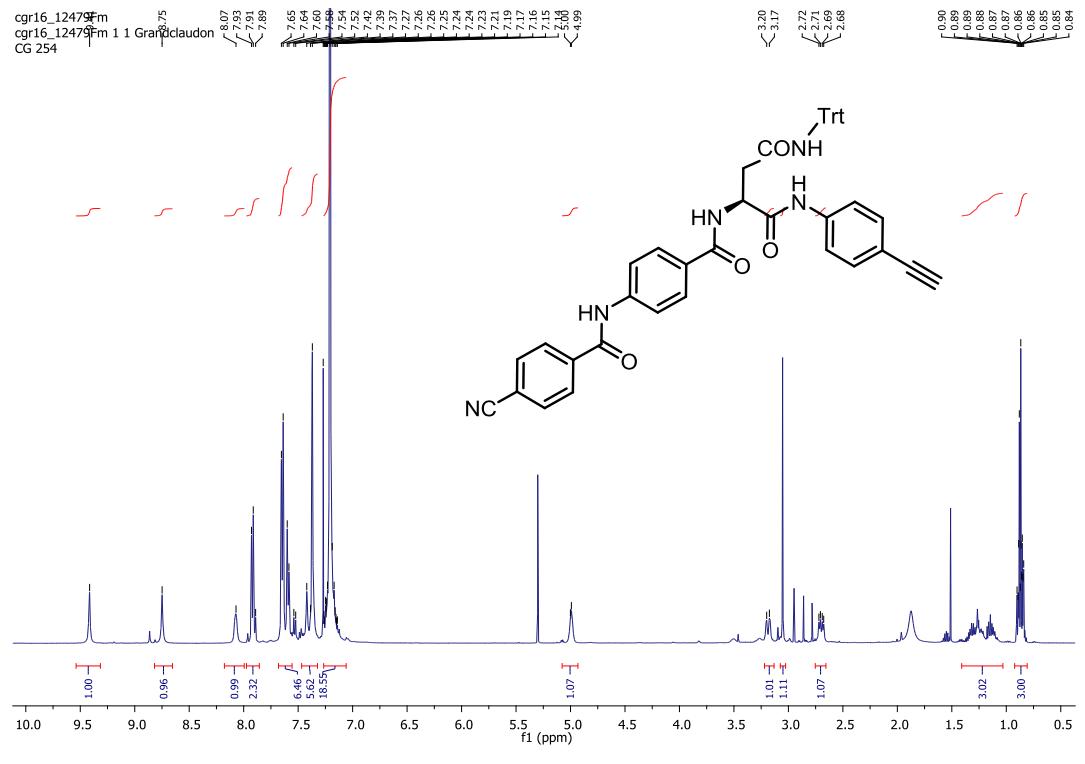
cgr16_12474Fm
cgr16_12474Fm 1 1^{0.27}
Grandclaudon
CG 102



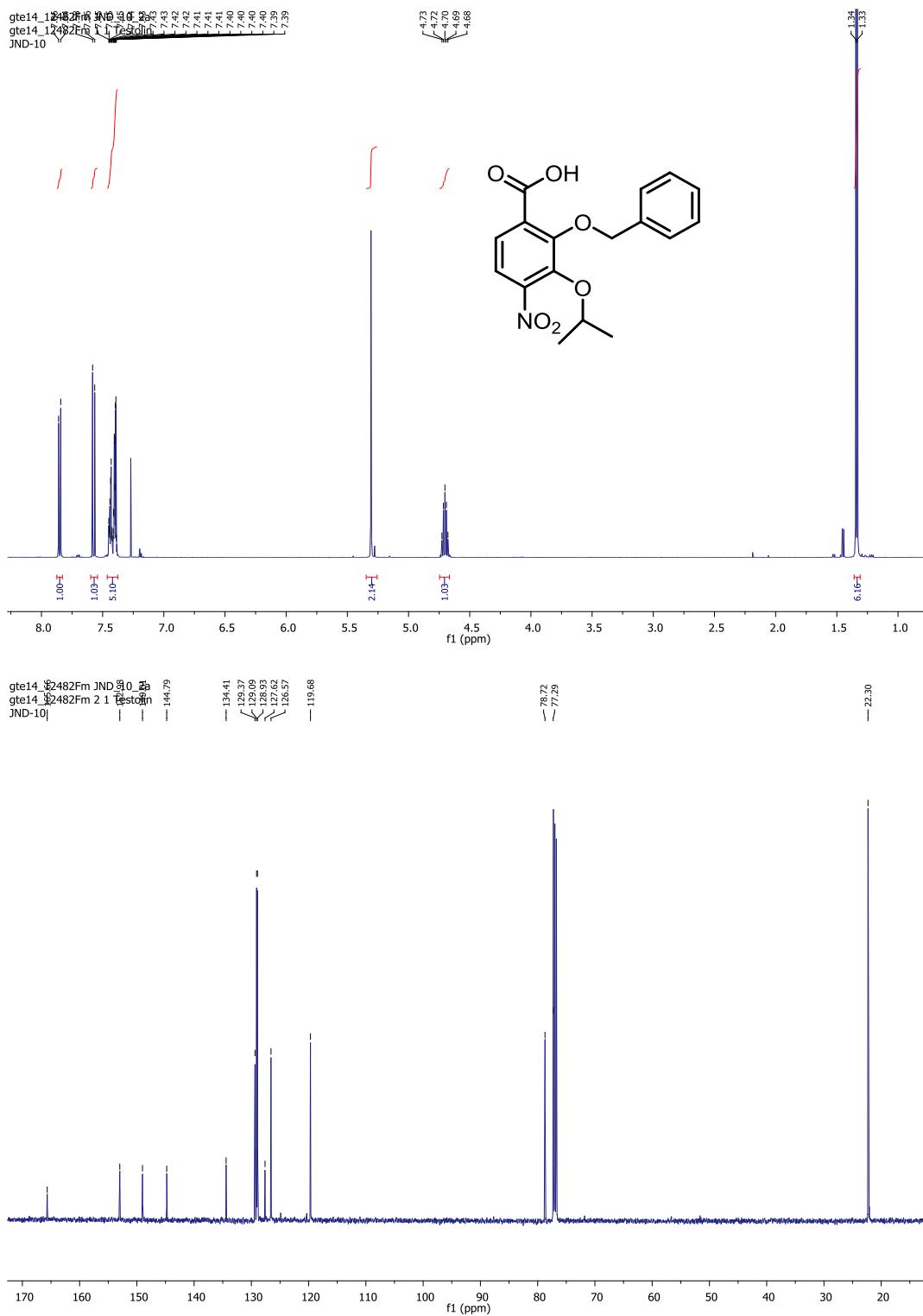
cgr16_12474Fm 0
cgr16_12474Fm 198.46 1 Grandclaudon 15.80
CG 102



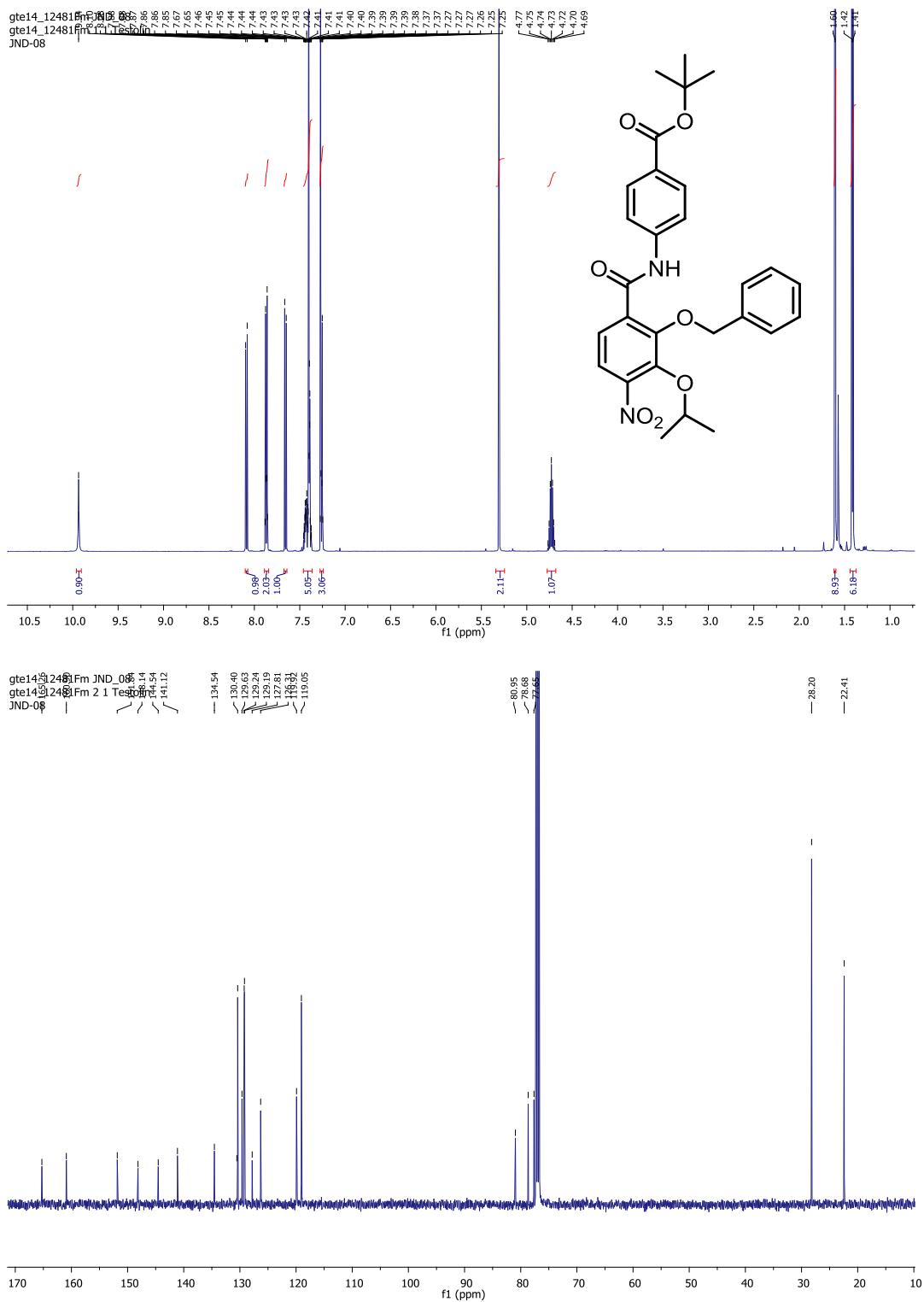
(S)-2-(4-(4-Cyanobenzamido)benzamido)-N1-(4-ethynylphenyl)-N4-tritylsuccinamide



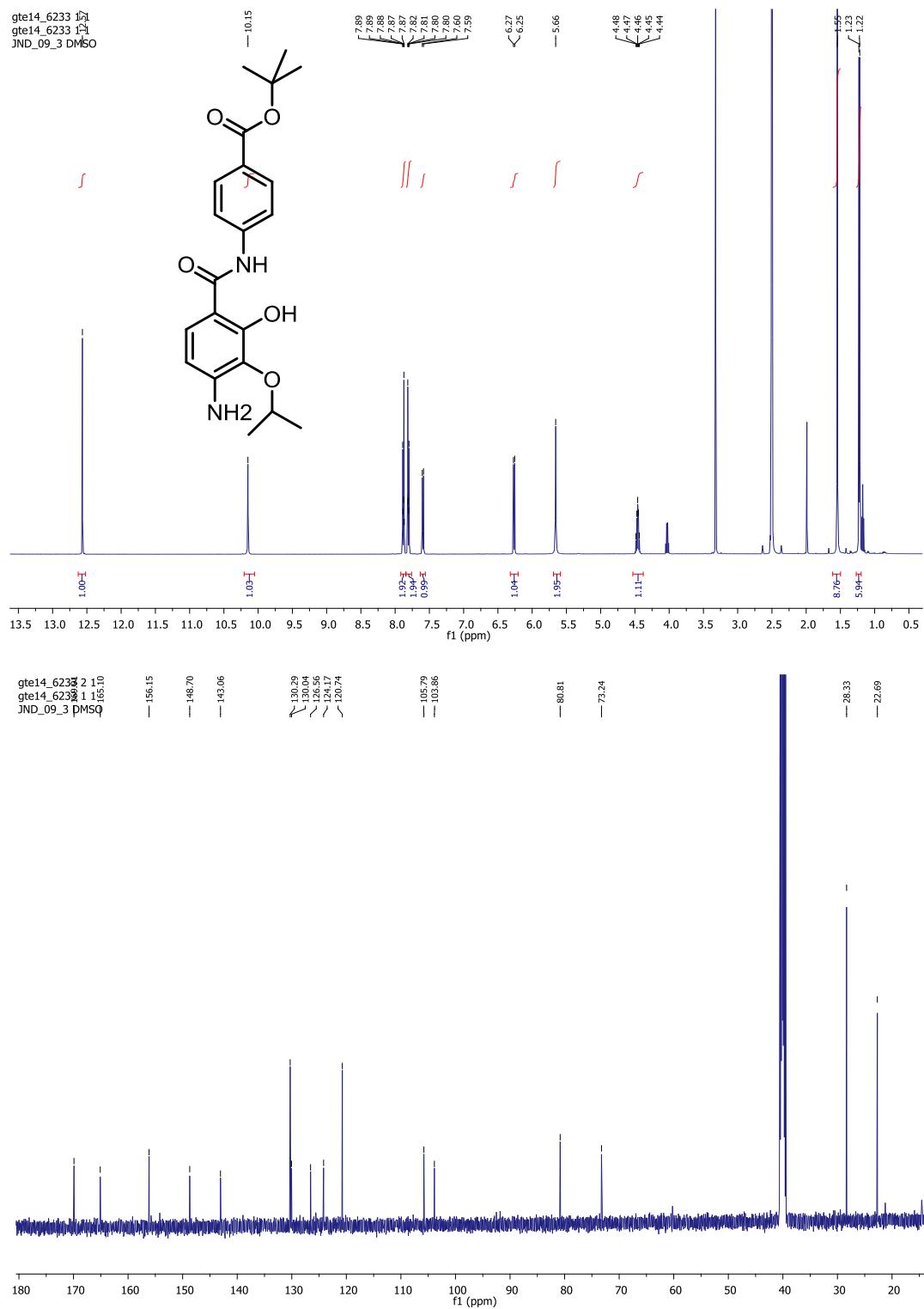
2-(Benzylxy)-3-isopropoxy-4-nitrobenzoic acid



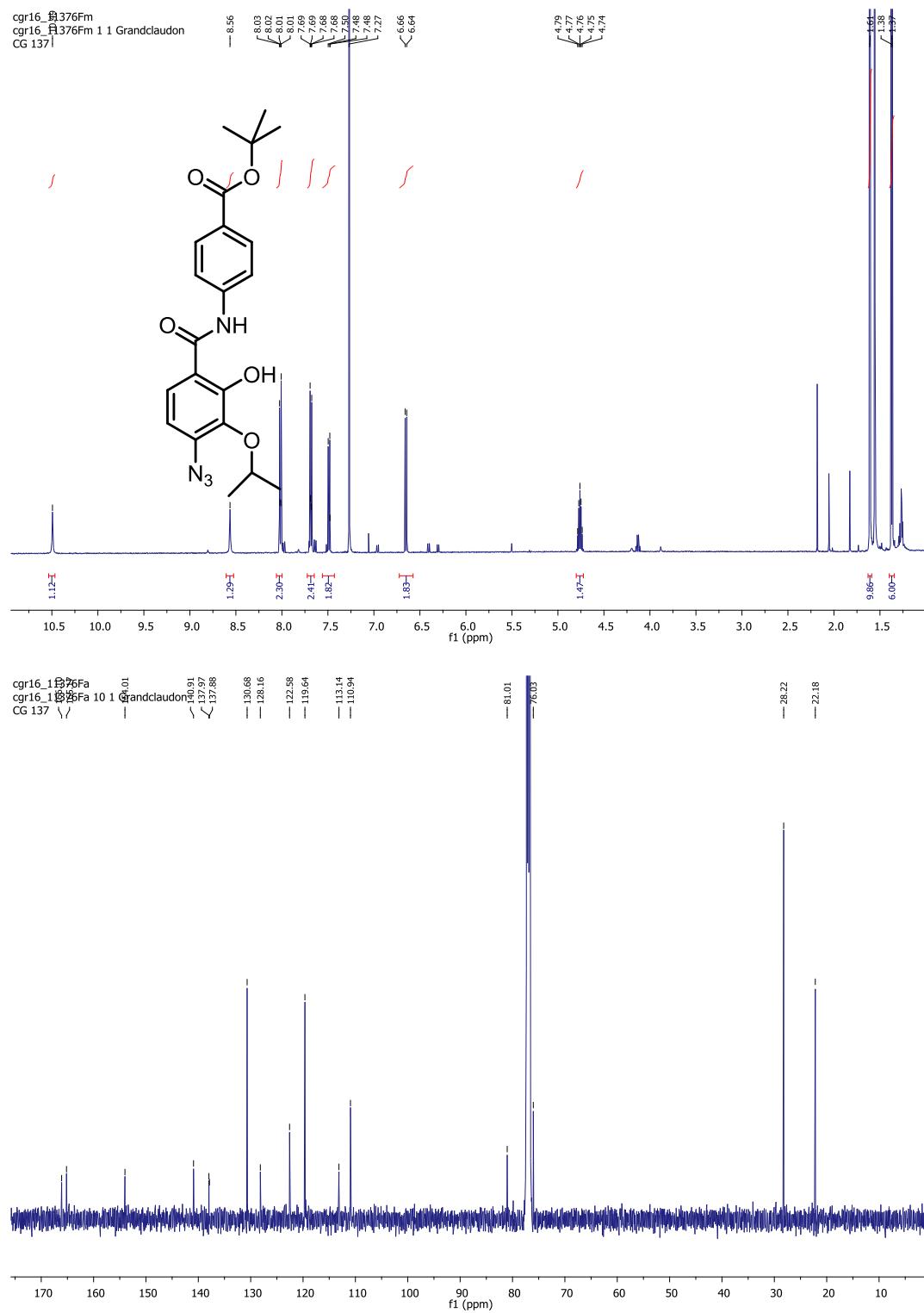
Tert-butyl 4-(2-(benzyloxy)-3-isopropoxy-4-nitrobenzamido)benzoate



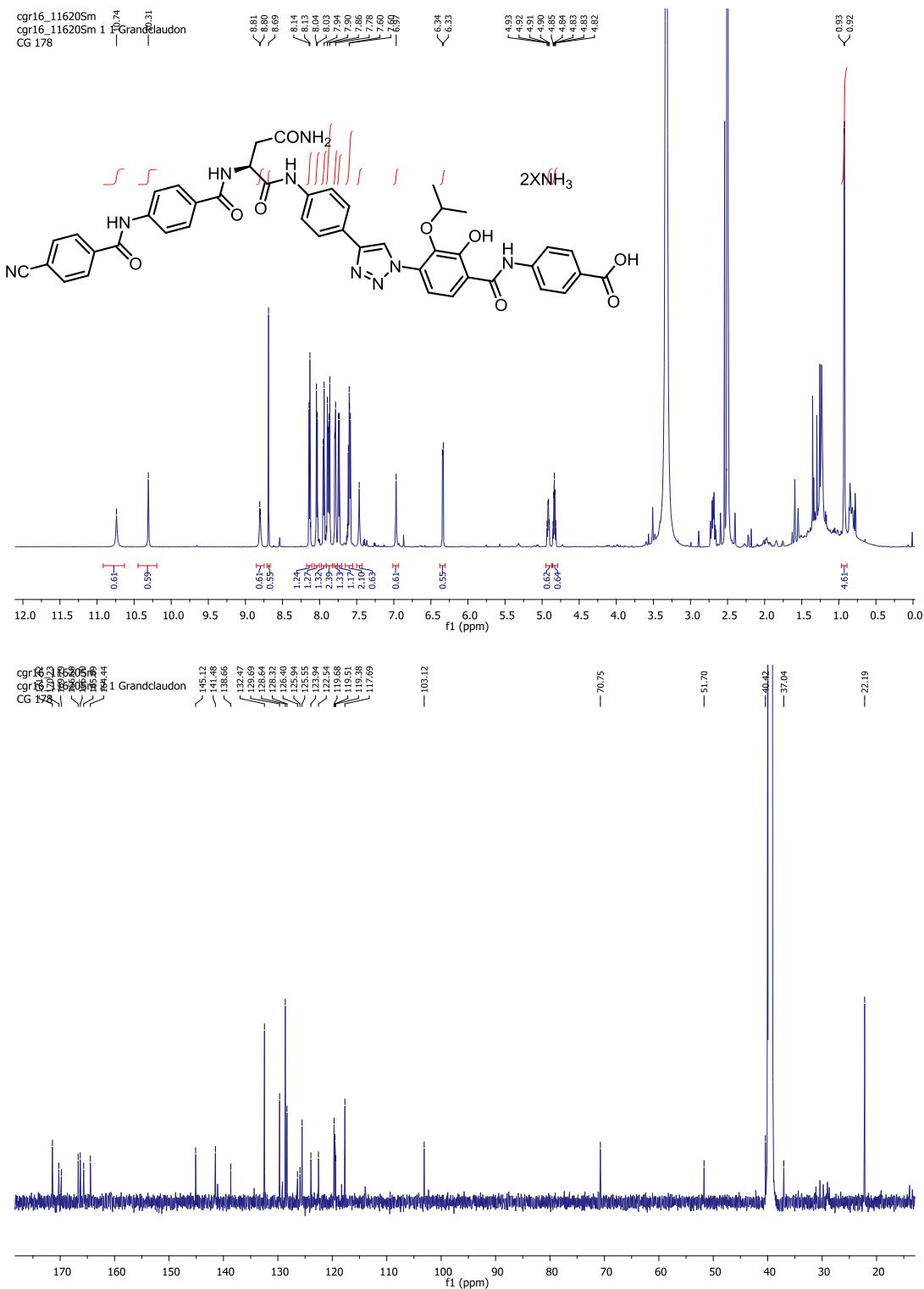
Tert-butyl 4-(4-amino-2-hydroxy-3-isopropoxybenzamido)benzoate



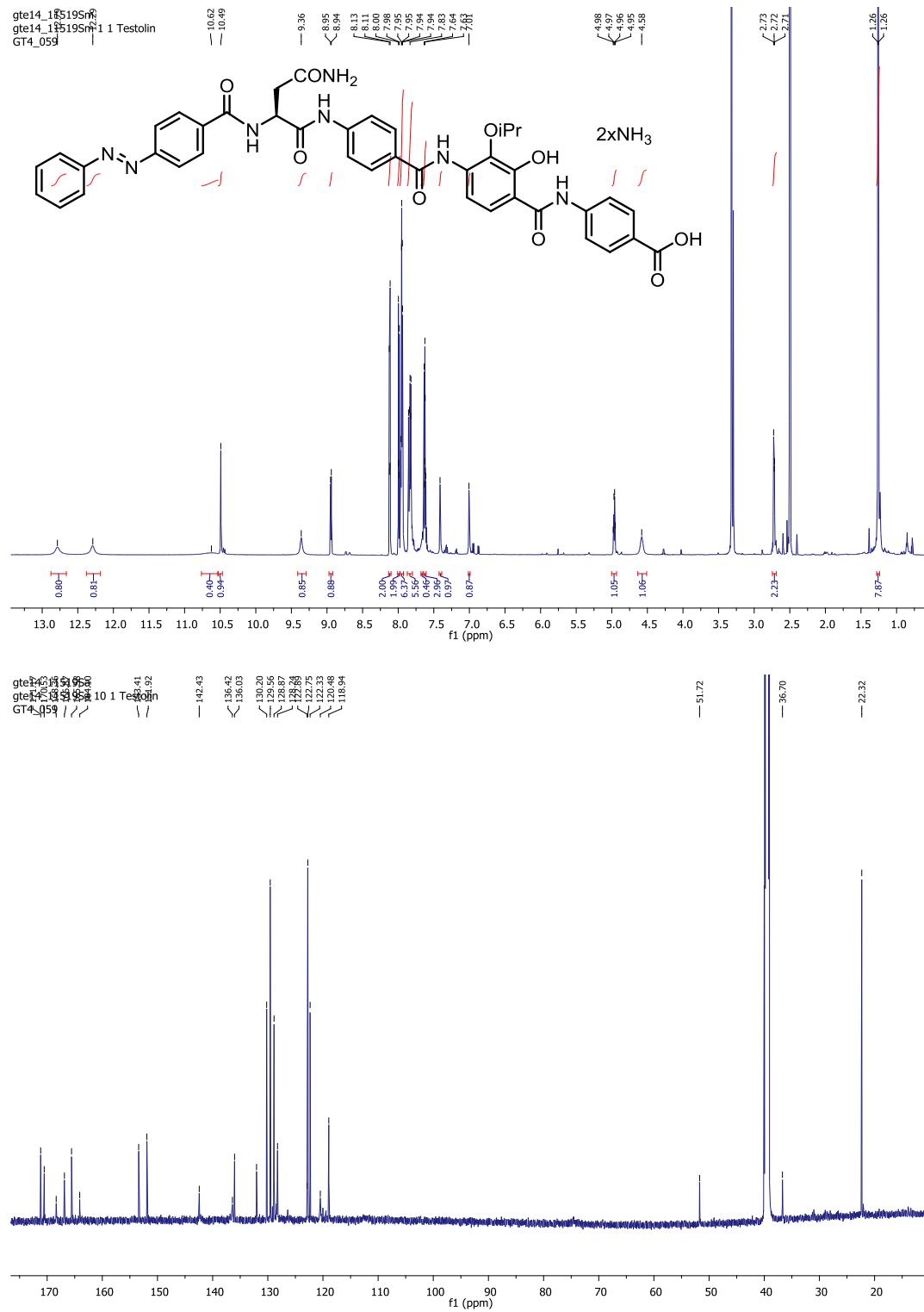
Tert-butyl 4-(4-azido-2-hydroxy-3-isopropoxybenzamido)benzoate



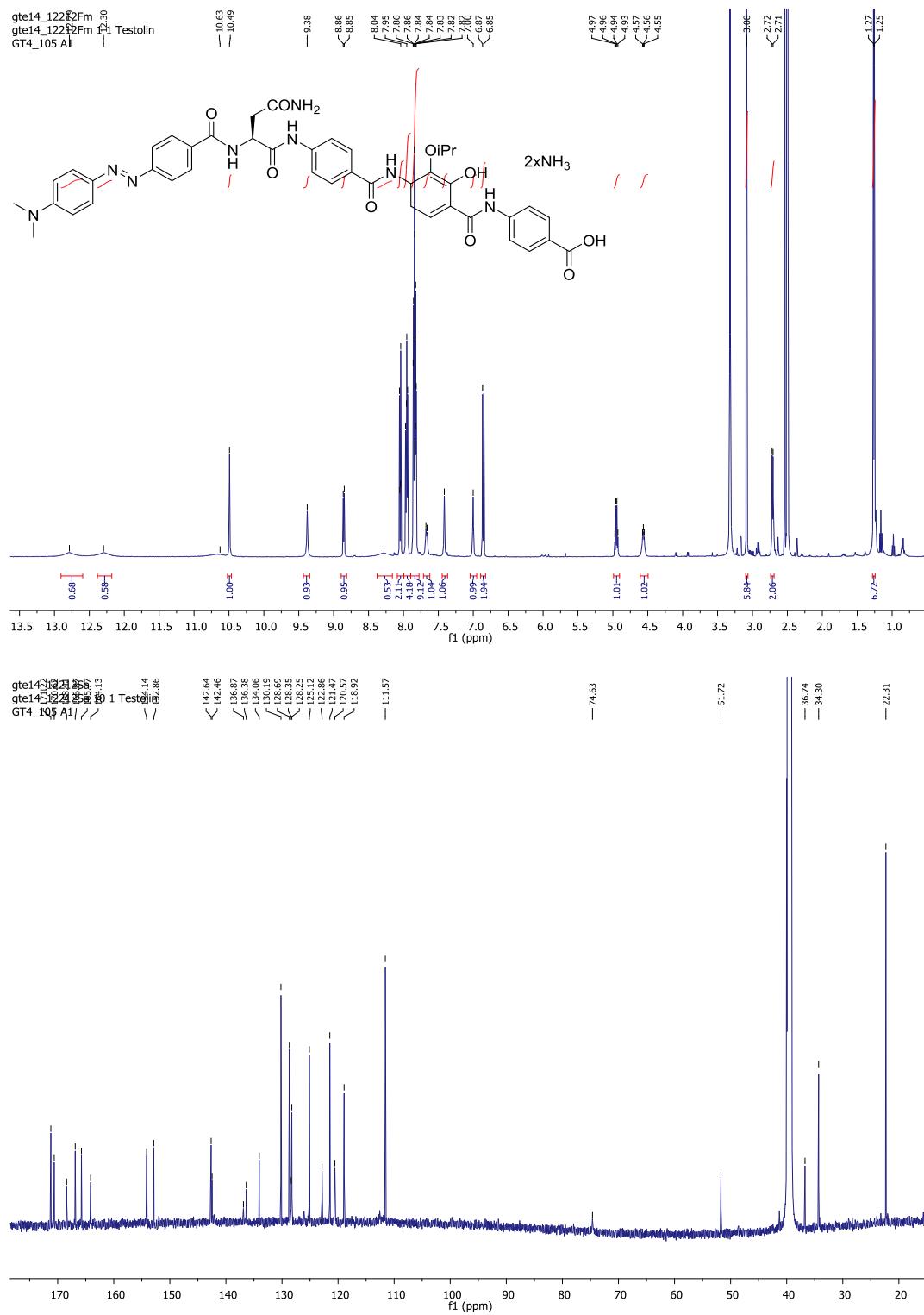
4-(4-(4-(4-Amino-2-(4-(4-cyanobenzamido)benzamido)-4-oxobutanamido)phenyl)-1H-1,2,3-triazol-1-yl)-2-hydroxy-3-isopropoxybenzamido)benzoic acid



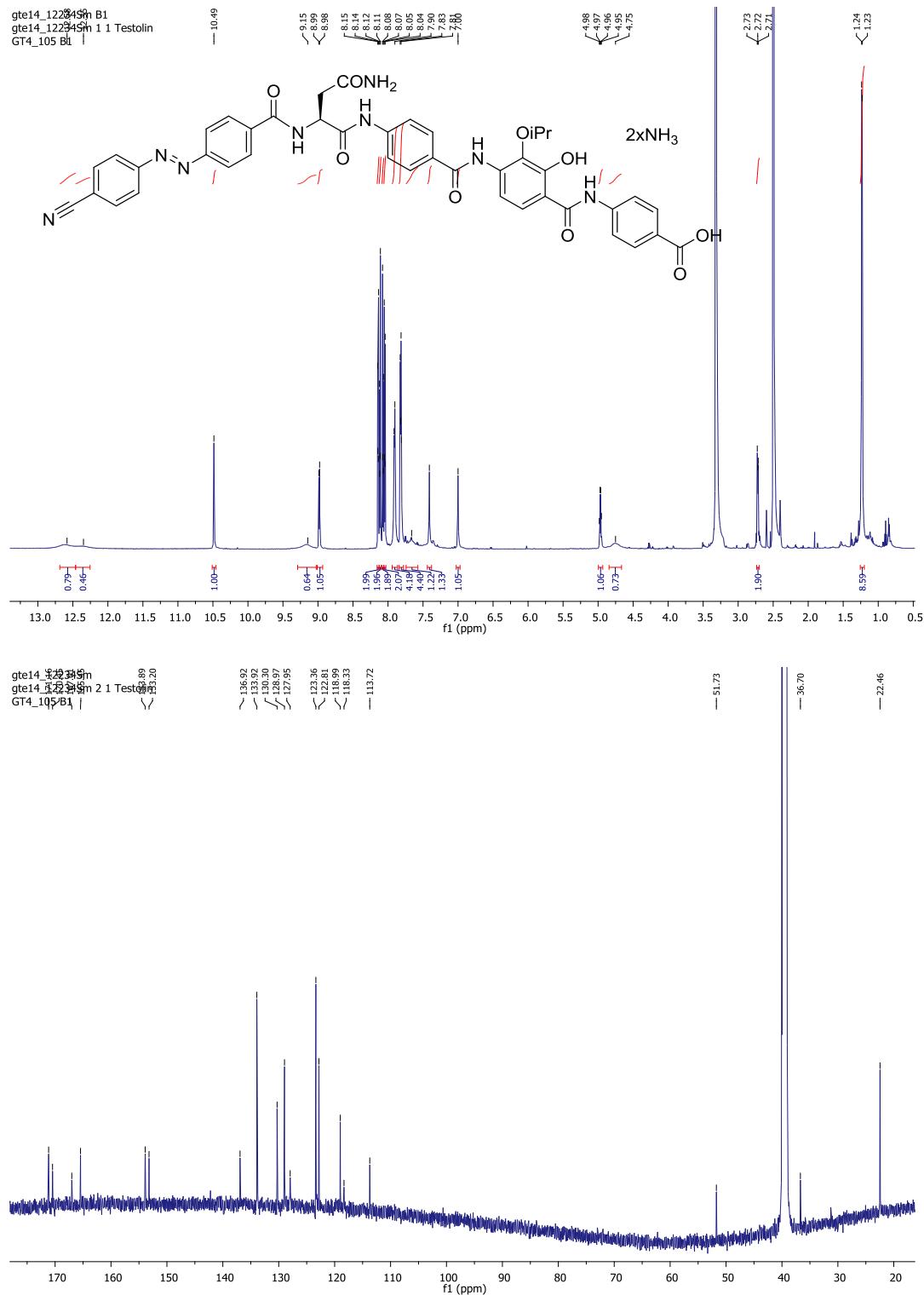
(S,E)-4-(4-(4-Amino-4-oxo-2-(4-(phenyldiazenyl)benzamido)butanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid



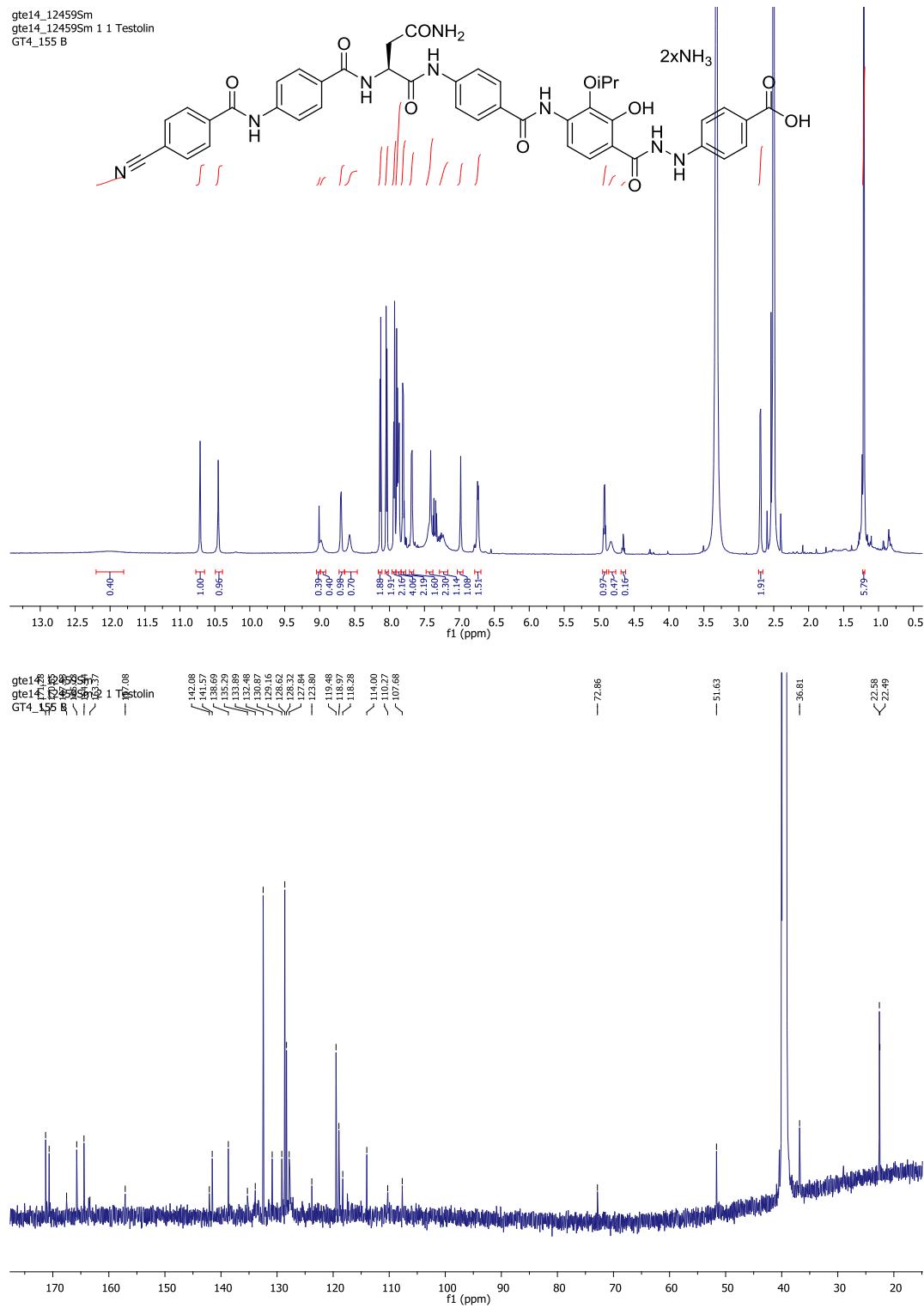
(S,E)-4-(4-(4-Amino-2-(4-((dimethylamino)phenyl)diazenyl)benzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid



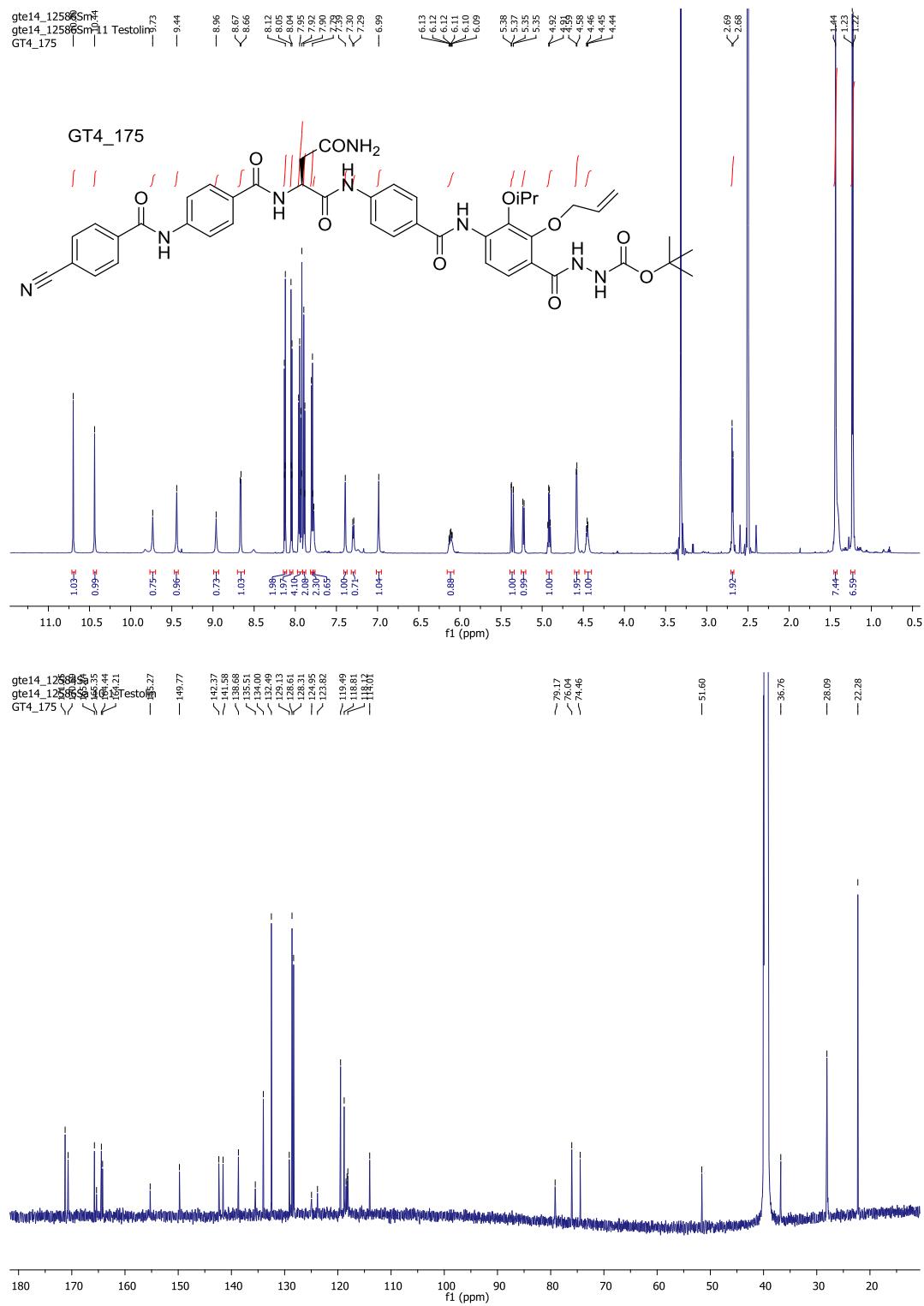
(S,E)-4-(4-(4-Amino-2-(4-((4-cyanophenyl)diazenyl)benzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzamido)benzoic acid



(S)-4-(2-(4-(4-Amino-2-(4-(4-cyanobenzamido)benzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzoyl)hydrazineyl)benzoic acid

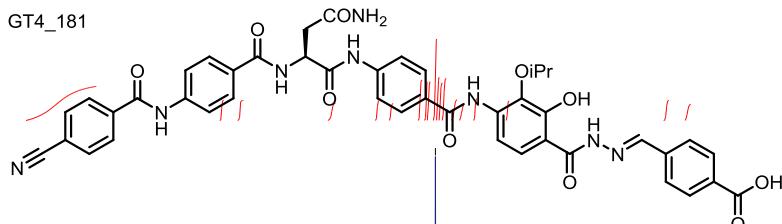


Tert-butyl (S)-2-(2-(allyloxy)-4-(4-amino-2-(4-(4-cyanobenzamido)benzamido)-4-oxobutanamido)benzamido)-3-isopropoxybenzoyl)hydrazine-1-carboxylate

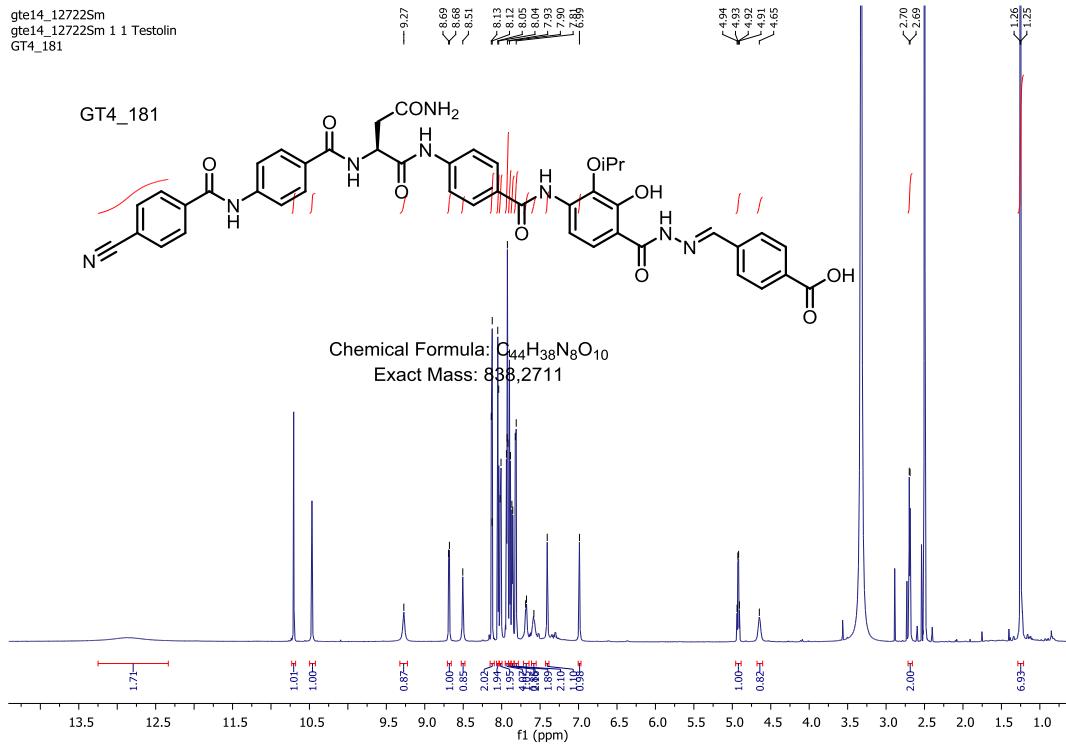


(S,E)-4-((2-(4-(4-Amino-2-(4-(4-cyanobenzamido)benzamido)-4-oxobutanamido)benzamido)-2-hydroxy-3-isopropoxybenzoyl)hydrazineylidene)methyl)benzoic acid

gte14_12722Sm
gte14_12722Sm 1 1 Testolin
GT4_181



Chemical Formula: C₄₄H₃₈N₈O₁₀
Exact Mass: 838.2711



gte14_181

