Supporting Information for

Application of the Thioacid-Azide Ligation (TAL) for the Preparation of Glycosylated and Fluorescently Labeled Amino Acids

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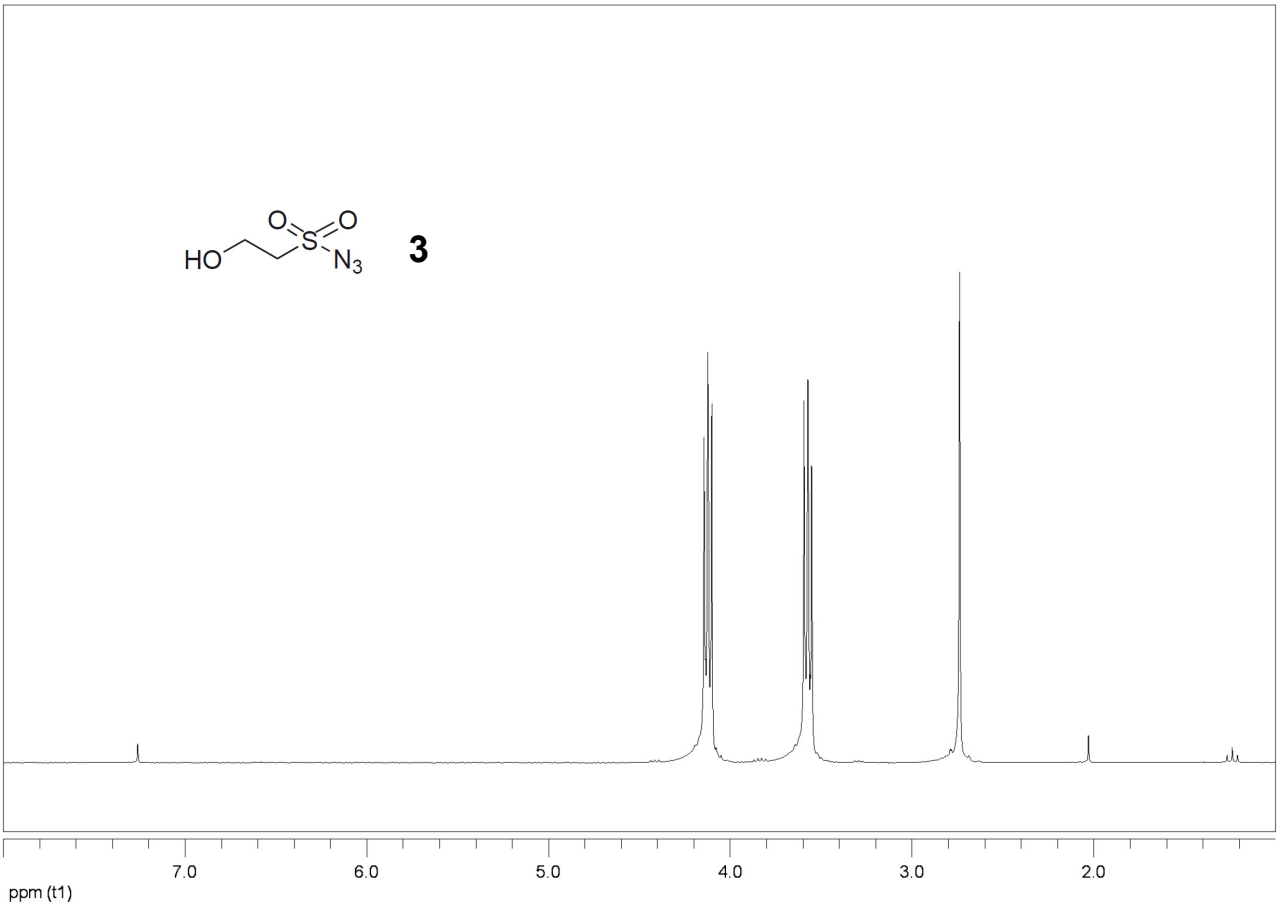
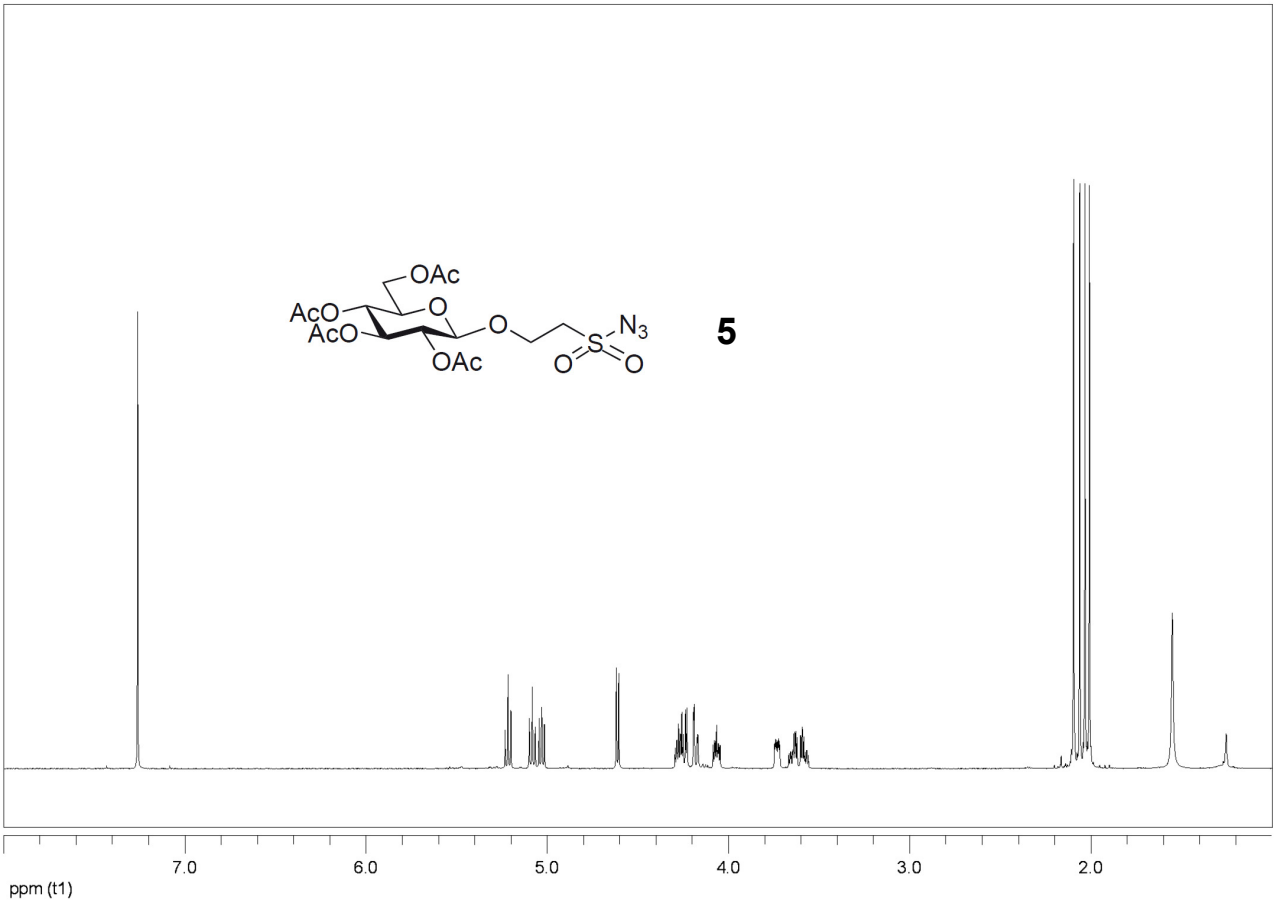
2-Hydroxyethanesulfonyl Azide (3)



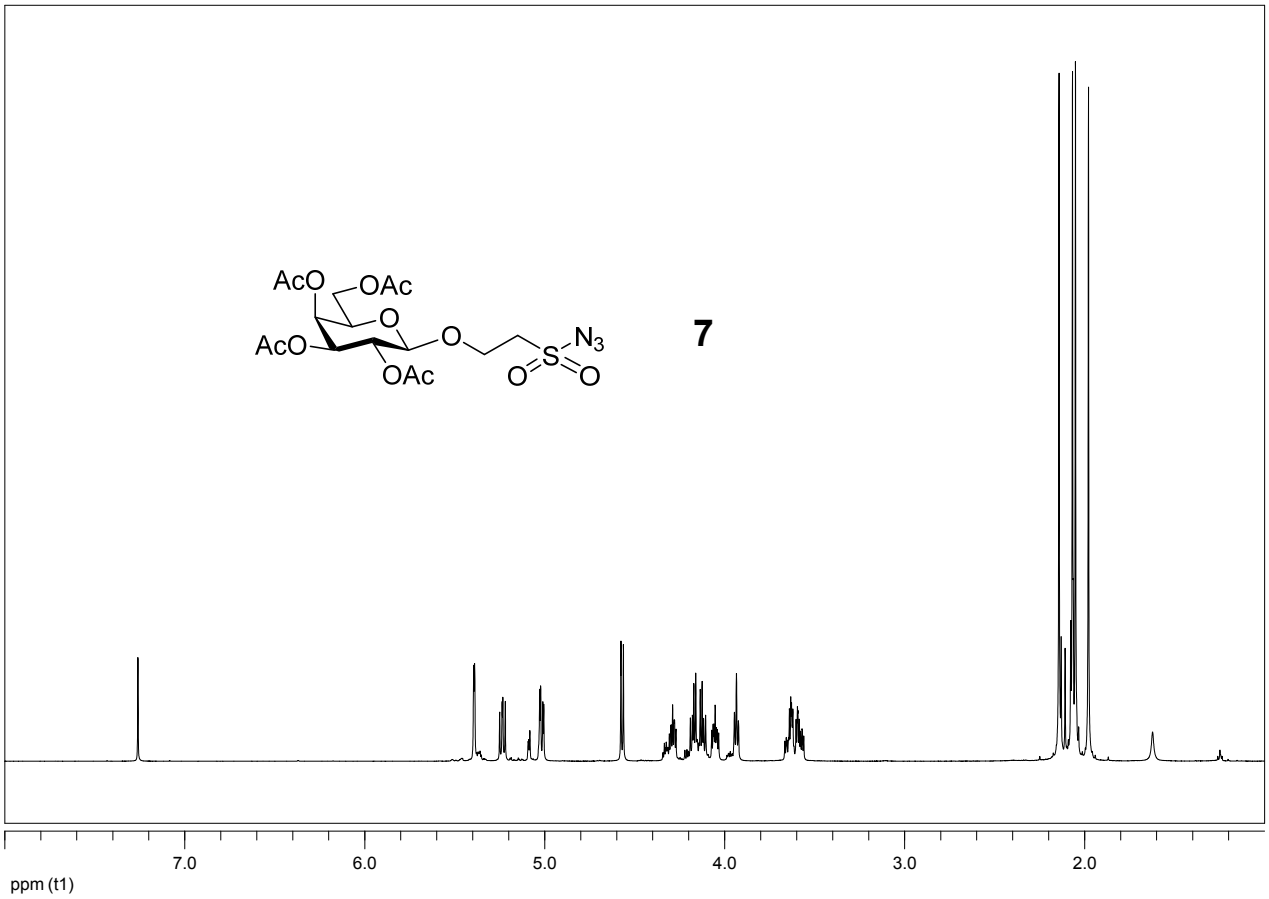
^{1}H NMR (250 MHz, $CDCl_3$)

2-Azidosulfonylethyl 2,3,4,6-Tetra-*O*-acetyl-*β*-D-glucopyranoside (5)



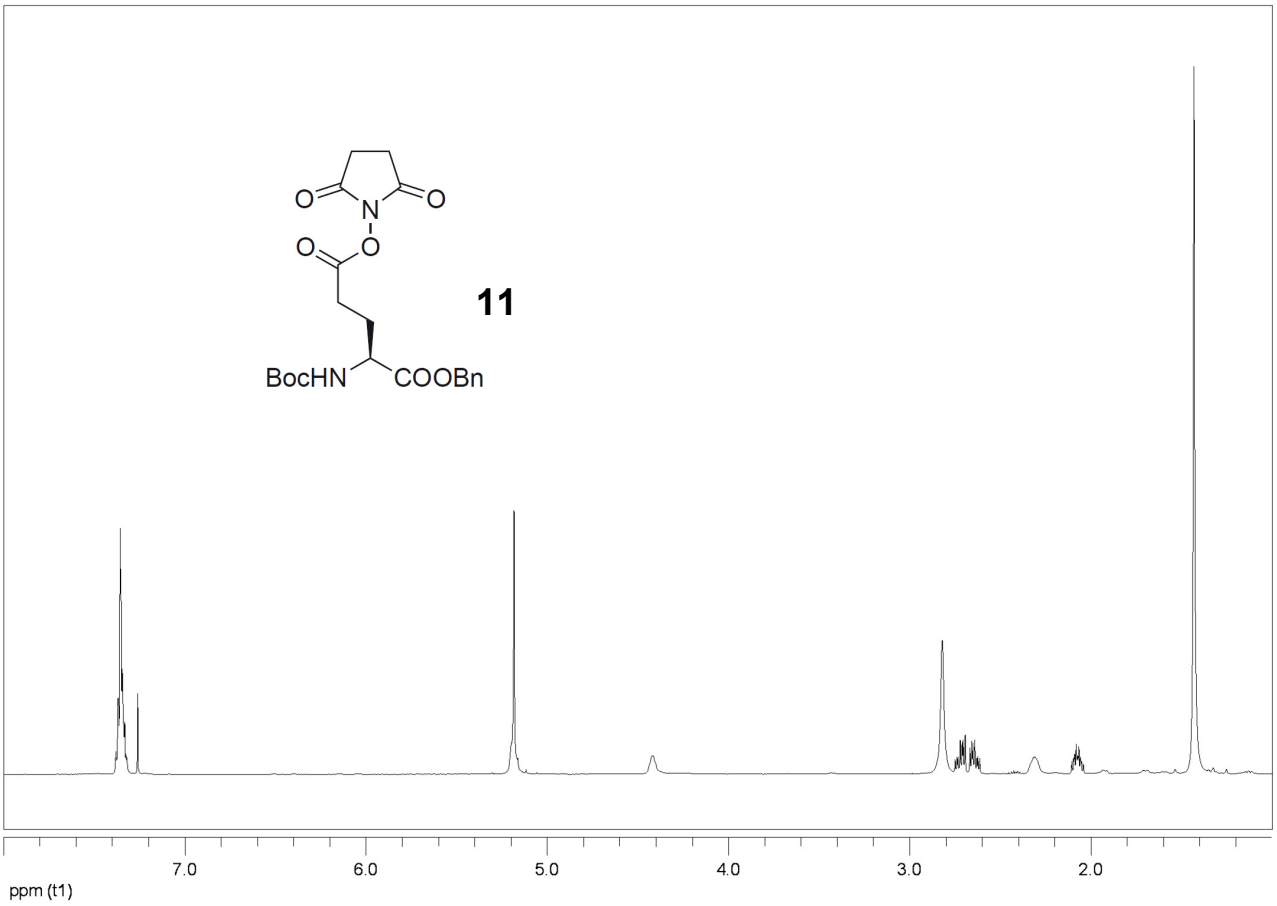
^{1}H NMR (600 MHz, $CDCl_3$)

2-Azidosulfonylethyl 2,3,4,6-Tetra-*O*-acetyl-*β*-D-galactopyranoside (7)



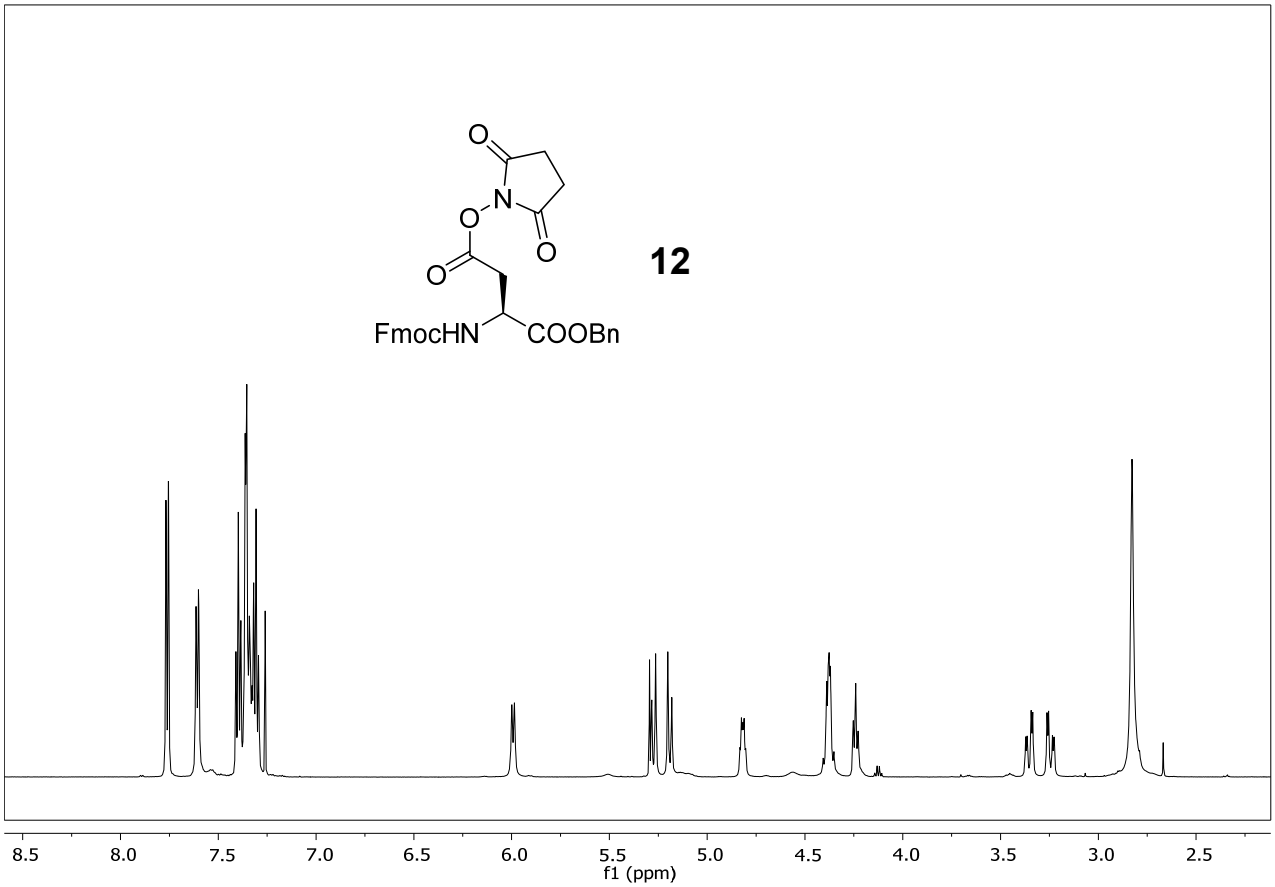
^{1}H NMR (600 MHz, $CDCl_3$)

Boc-Glu(OSu)-OBn (11)



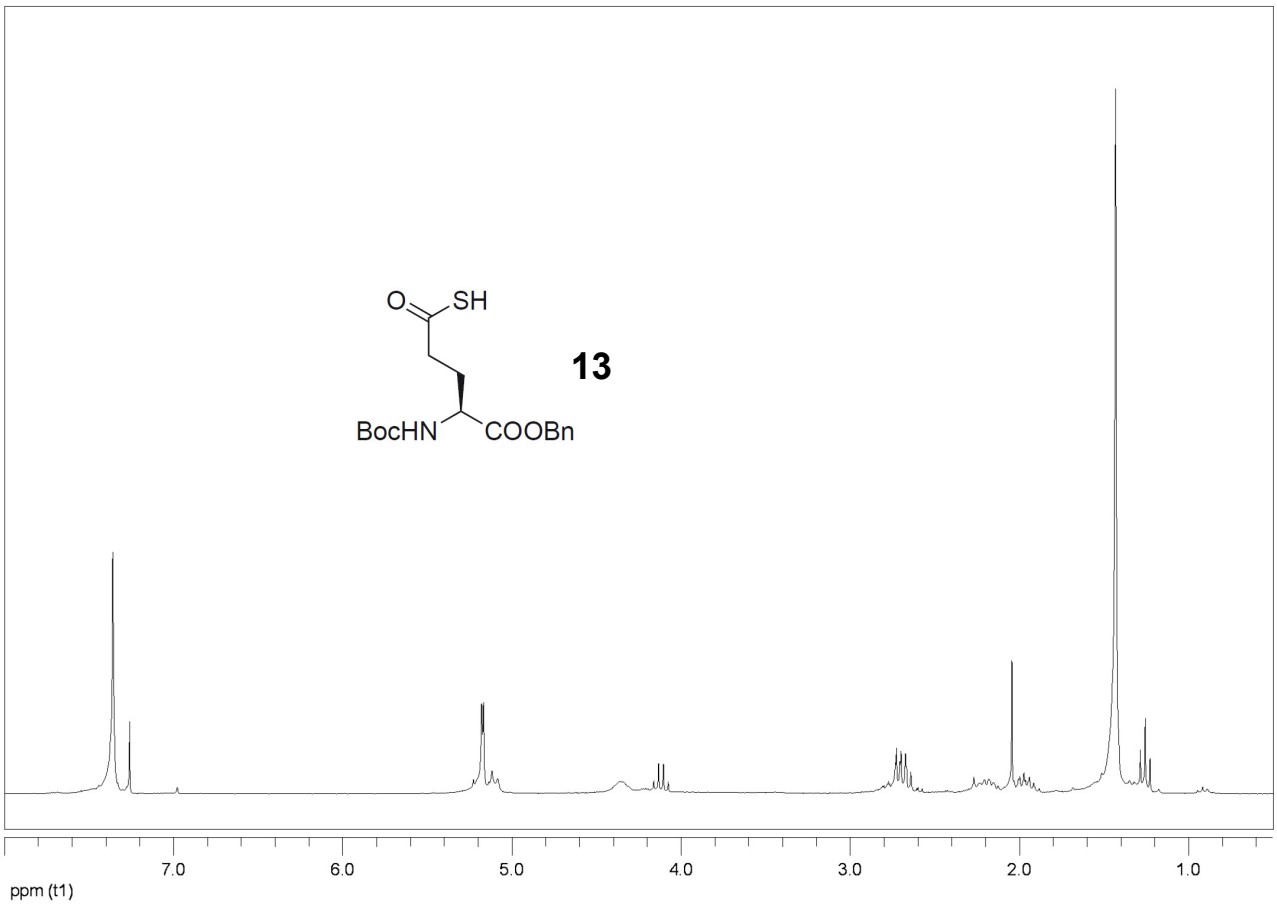
^{1}H NMR (600 MHz, $CDCl_3$)

Fmoc-Asp(OSu)-OBn (12)



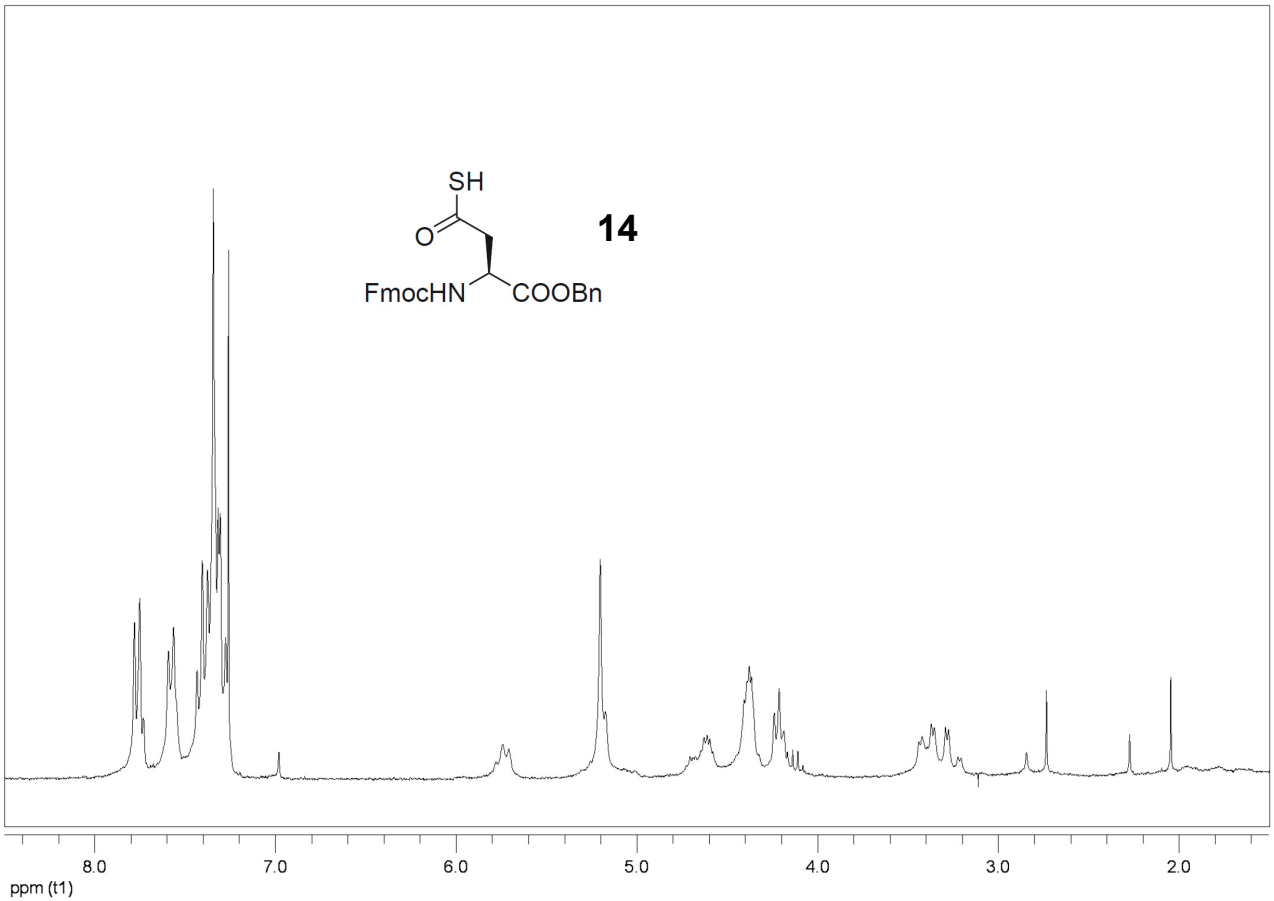
^{1}H NMR (600 MHz, $CDCl_3$)

Boc-Glu(SH)-OBn (13)



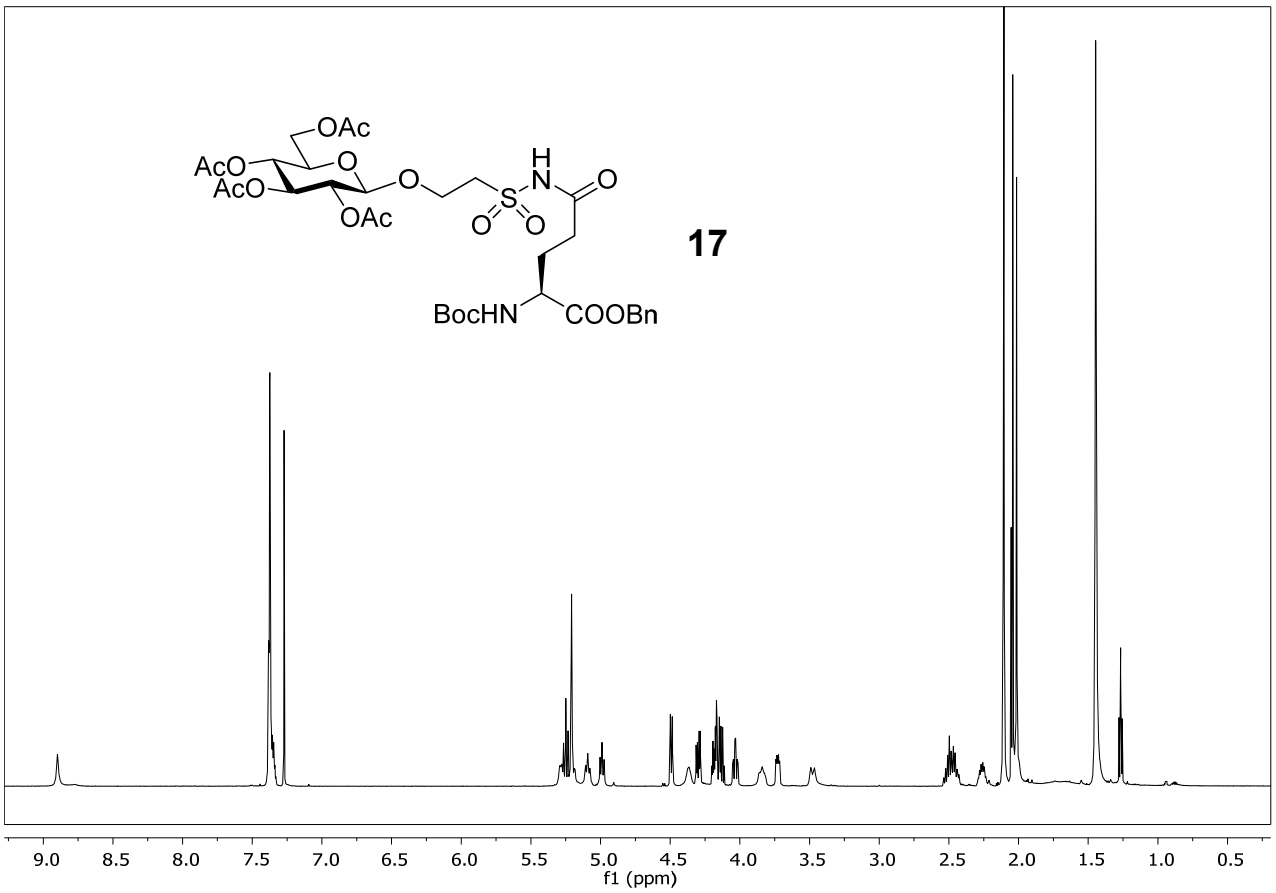
^{1}H NMR (250 MHz, $CDCl_3$)

Fmoc-Asp(SH)-OBn (14)



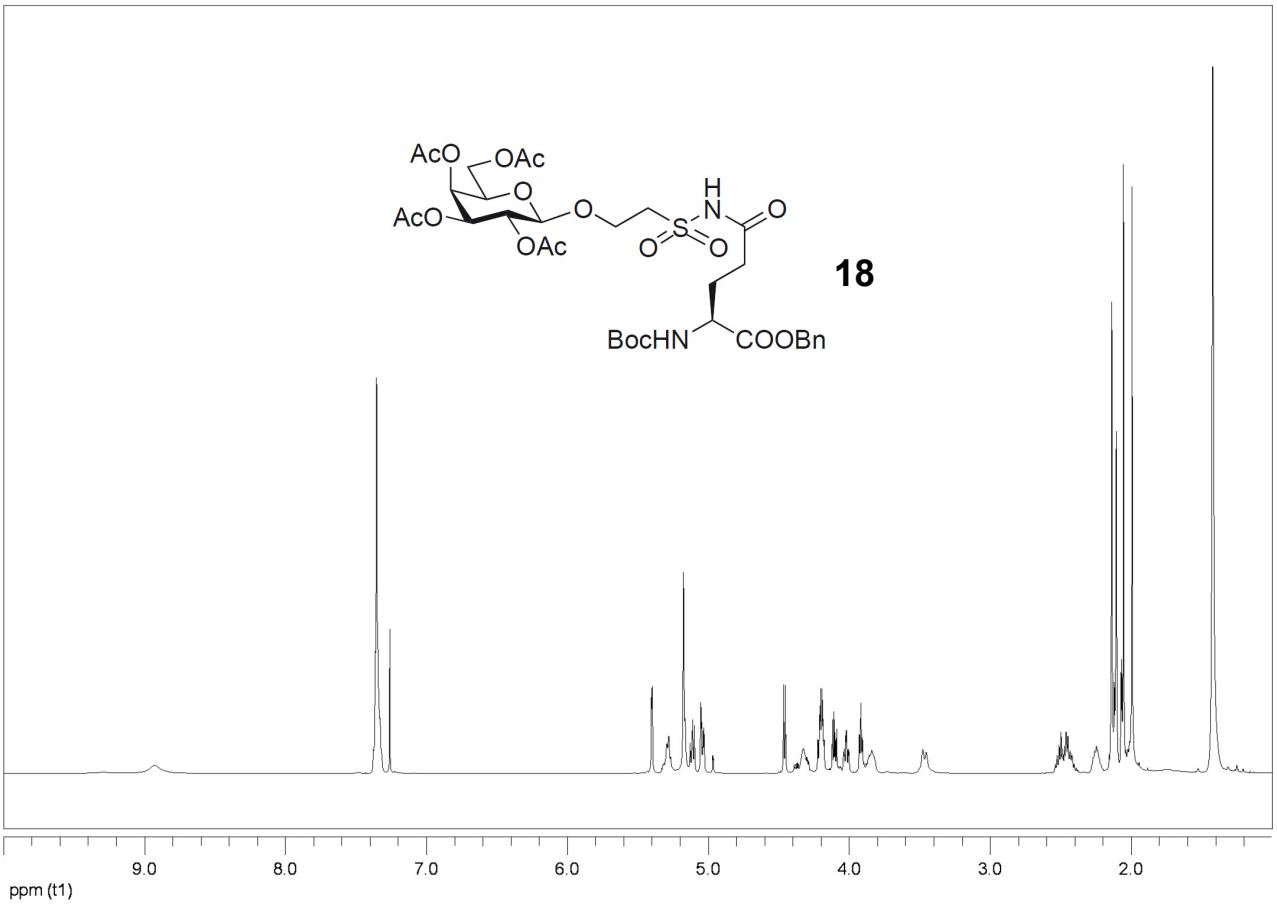
^{1}H NMR (250 MHz, $CDCl_3$)

Boc-Gln(2,3,4,6-tetra-*O*-acetyl-β-D-glucopyranosyl-oxyethylsulfonyl)-OBn (17)



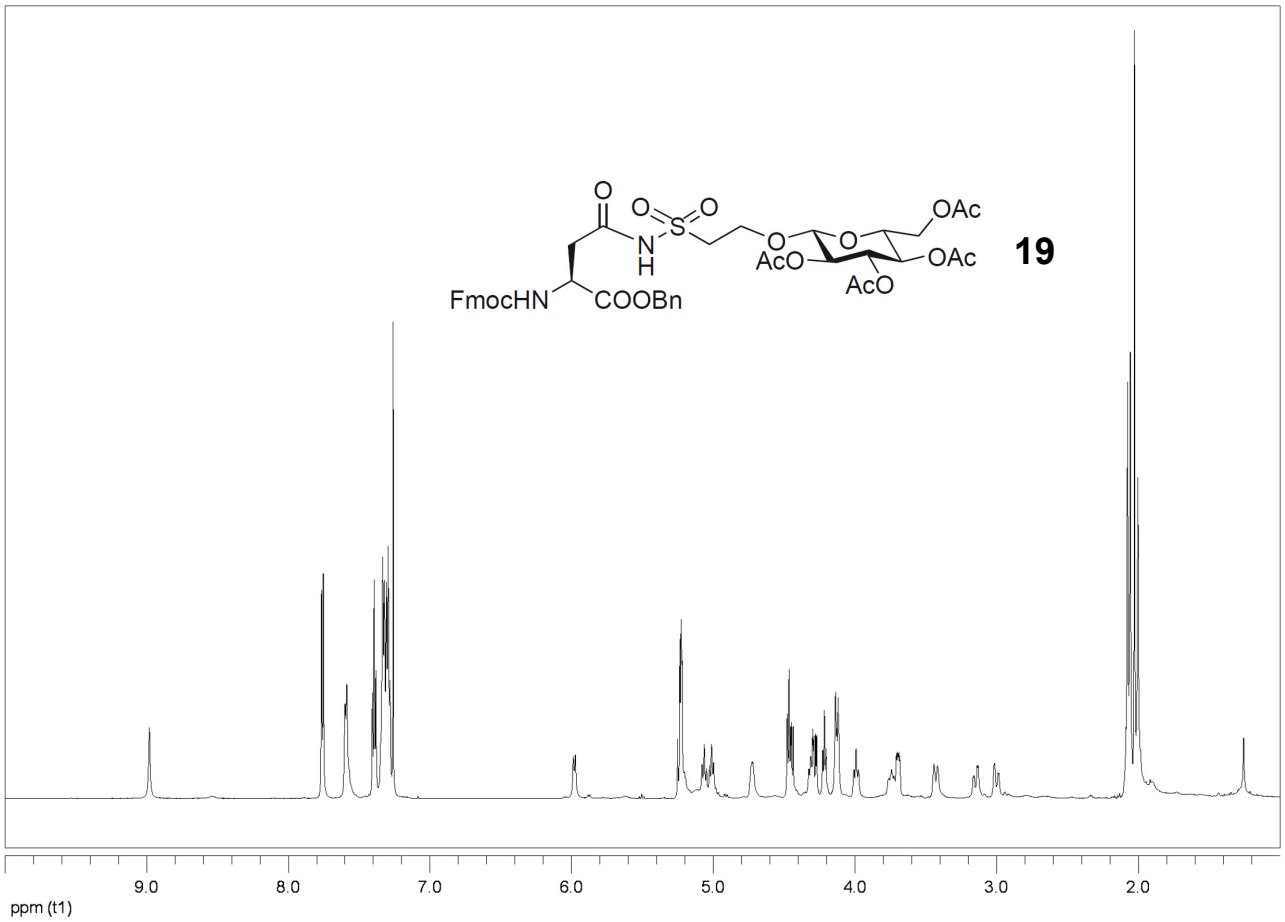
^{1}H NMR (600 MHz, $CDCl_3$)

Boc-Gln(2,3,4,6-tetra-*O*-acetyl-β-D-galactopyranosyl-oxyethylsulfonyl)-OBn (18)



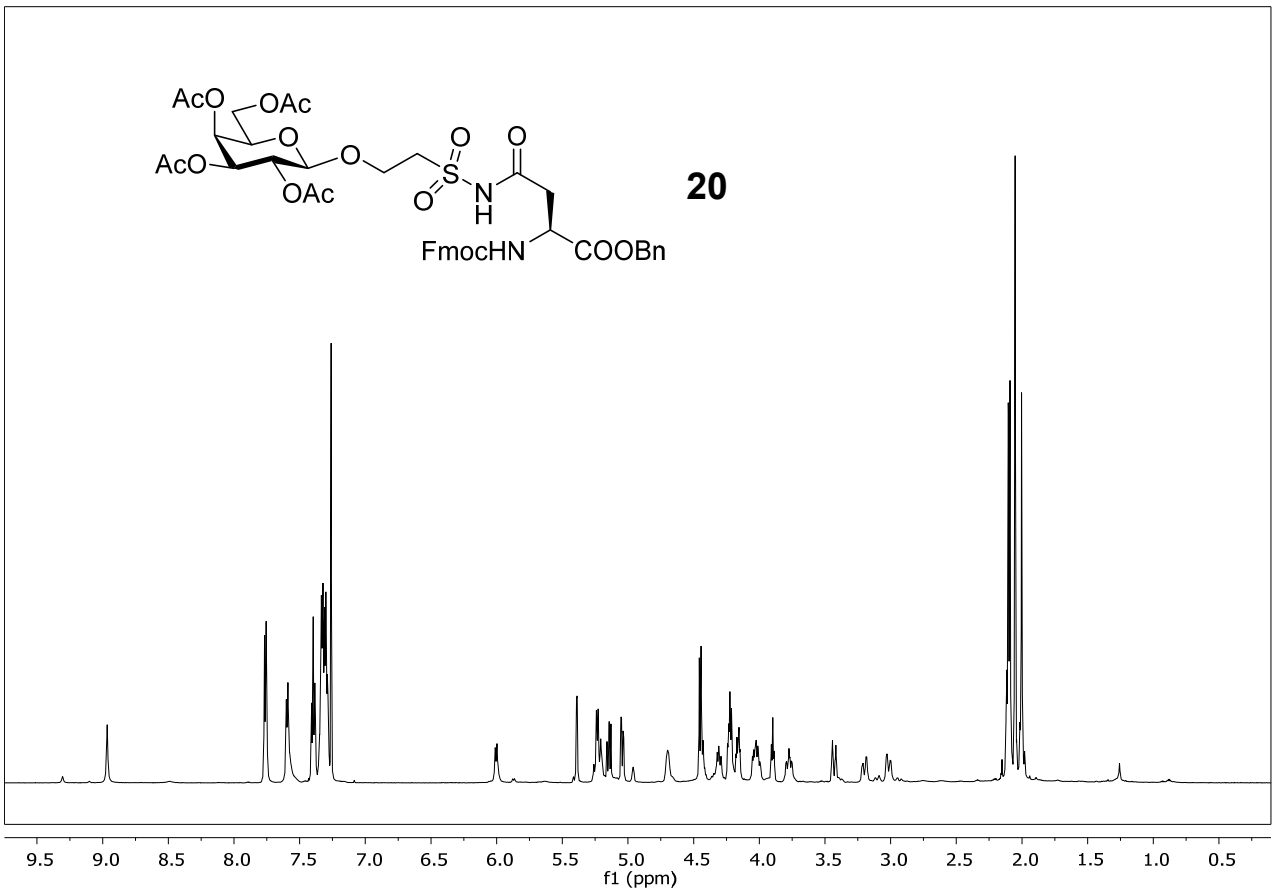
^{1}H NMR (600 MHz, $CDCl_3$)

Fmoc-Asn(2,3,4,6-tetra-*O*-acetyl-β-D-glucopyranosyl-oxyethylsulfonyl)-OBn (19)



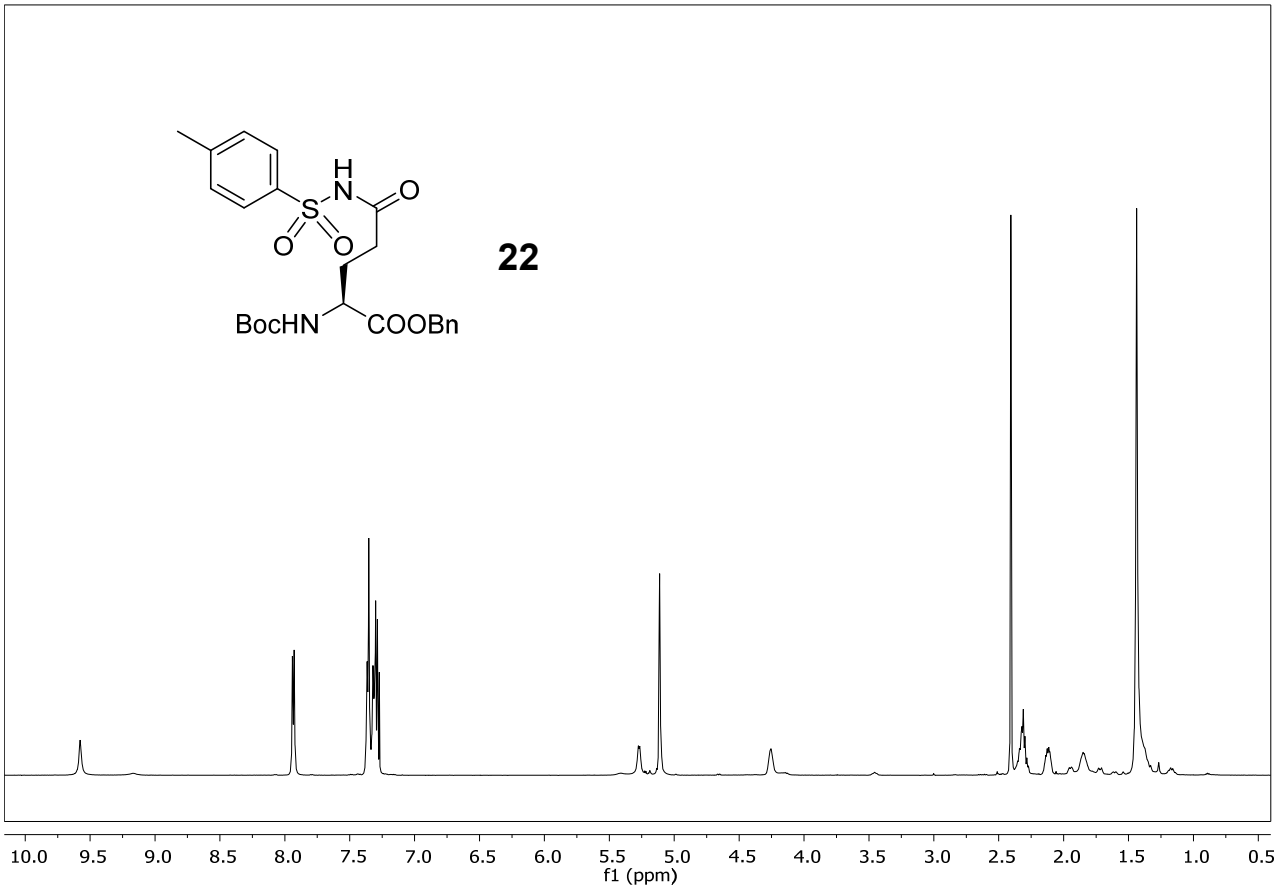
^{1}H NMR (600 MHz, $CDCl_3$)

Fmoc-Asn(2,3,4,6-tetra-*O*-acetyl-β-D-galactopyranosyl-oxyethylsulfonyl)-OBn (20)



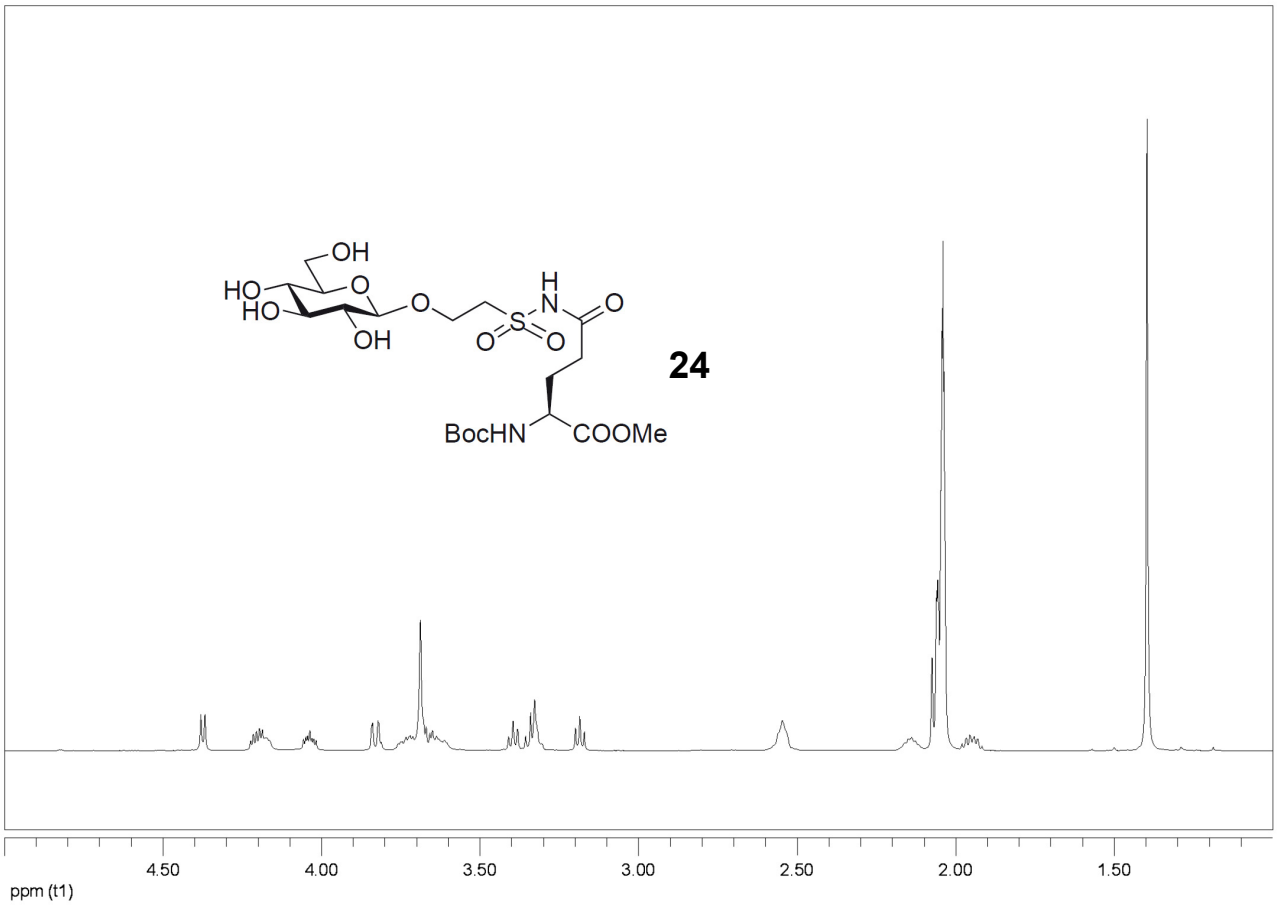
^{1}H NMR (600 MHz, $CDCl_3$)

Boc-Gln(4-methylbenzenesulfonyl)-OBn (22)



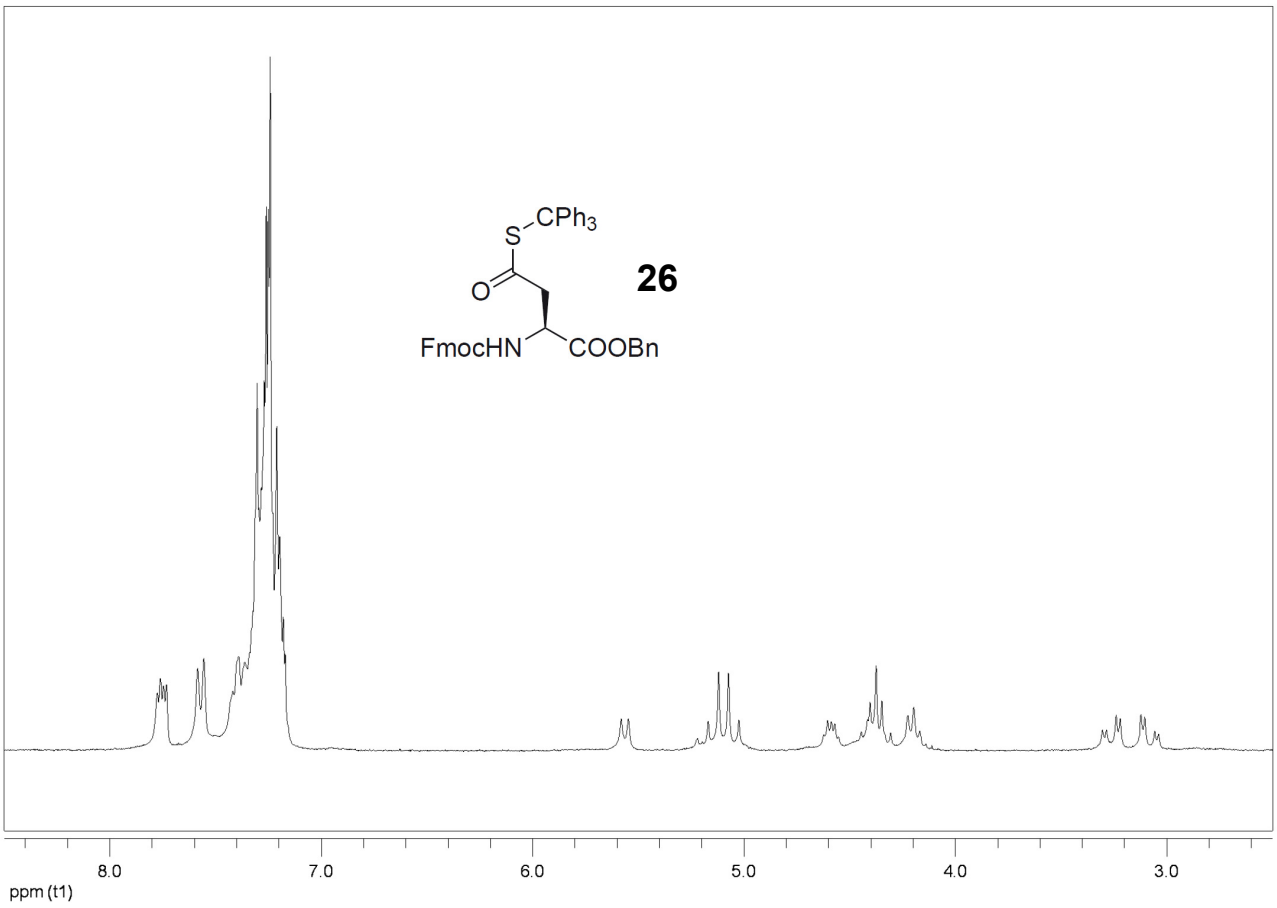
^{1}H NMR (600 MHz, $CDCl_3$)

Boc-Gln(β-D-glucopyranosyl-oxyethylsulfonyl)-OMe (24)



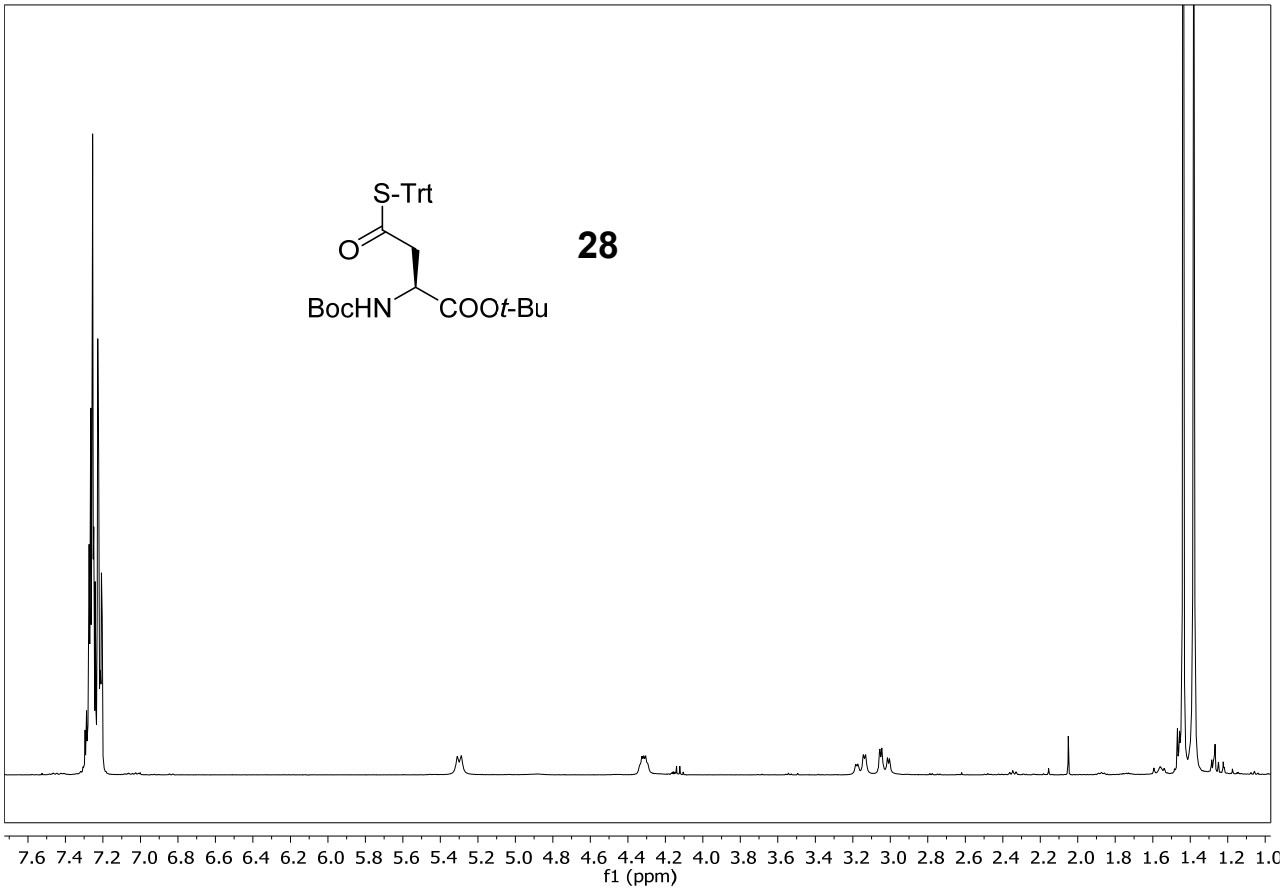
^{1}H NMR (600 MHz, [D]$_6$-acetone)

Fmoc-Asp(STrt)-OBn (26)



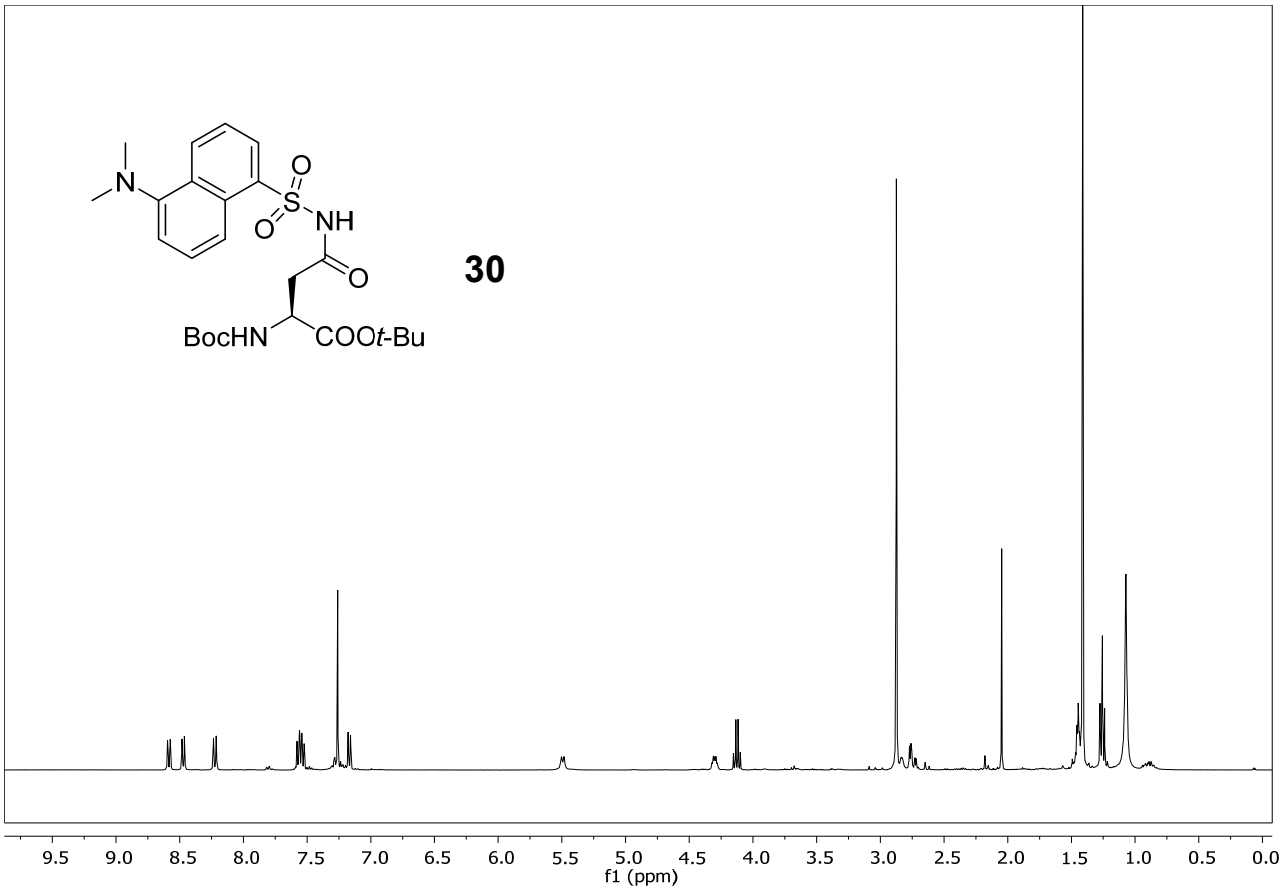
^{1}H NMR (250 MHz, $CDCl_3$)

Boc-Asp(STrt)-O*t*-Bu (28)



^{1}H NMR (400 MHz, $CDCl_3$)

Boc-Asn(dansyl)-O*t*-Bu (30)



^{1}H NMR (400 MHz, $CDCl_3$)