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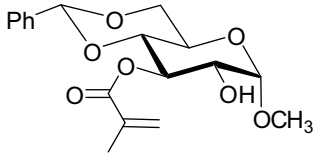
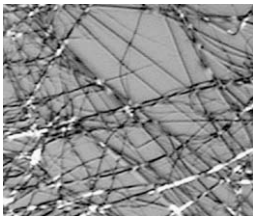
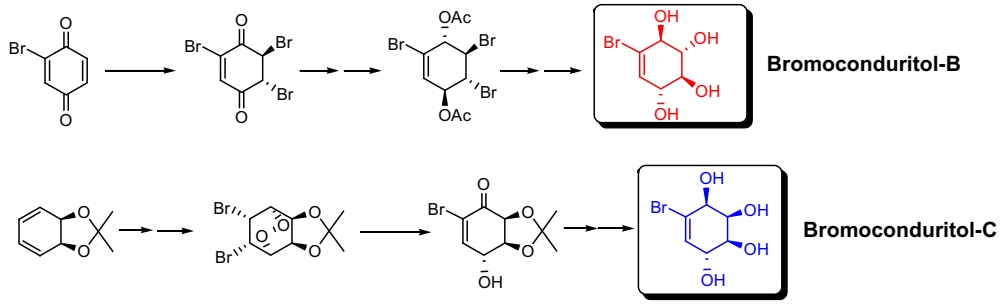
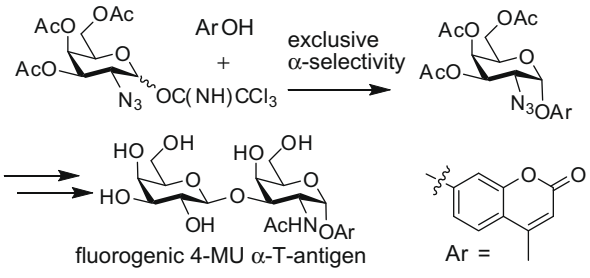
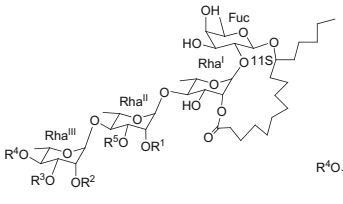


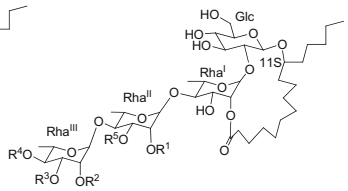








	R^1	R^2	R^3	R^4	R^5
1	Mba	H	Cna	Dodeca	Glc
2	Mba	Cna	H	Dodeca	Glc
8	Iba	Cna	H	Dodeca	Rha
9	Deca	Cna	H	Iba	Rha

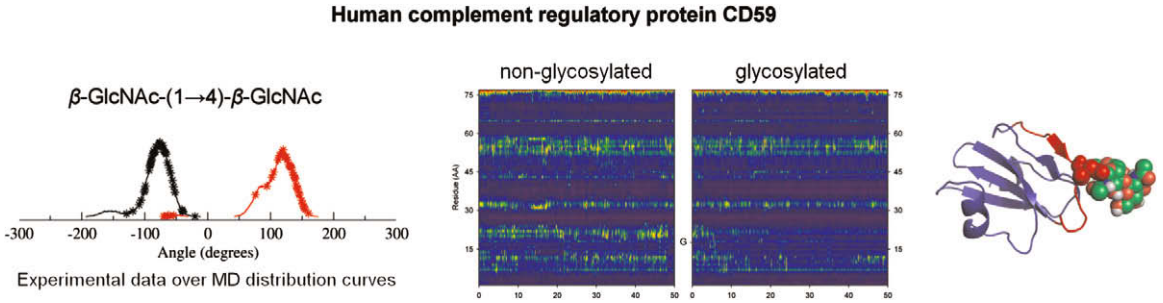


	R^1	R^2	R^3	R^4	R^5
3	Dodeca	Cna	H	Deca	H
4	H	Cna	H	Dodeca	Mba
5	Mba	Cna	H	Dodeca	H
6	Dodeca	Cna	Mba	H	Rha
7	Mba	H	Cna	Iba	Rha

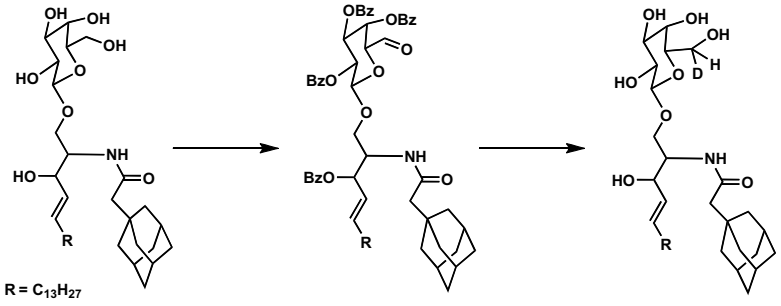
β-D-GlcNAc3NAcA-(1→4)
|
→6)-β-D-Glc*p*-(1→3)-β-D-Gal*p*NAc-(1→3)-α-D-Gal*p*-(1→ O-deacylated PS
|
β-D-Glc*p*NAc(16)

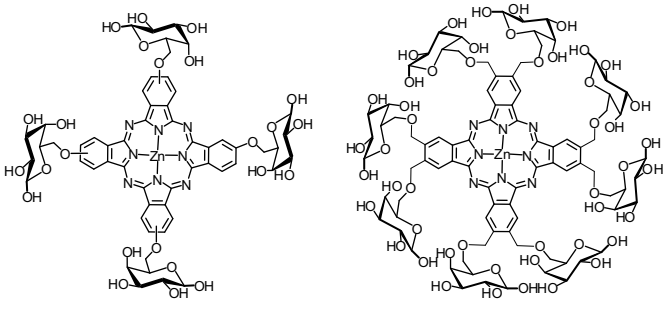
β-L-Rha*p*NAc3NHb-(1→3)┐
→4)-α-D-Glc*p*NAc-(1→3)-α-L-Rha*p*-(1→3)-β-D-Glc*p*NAc-(1→

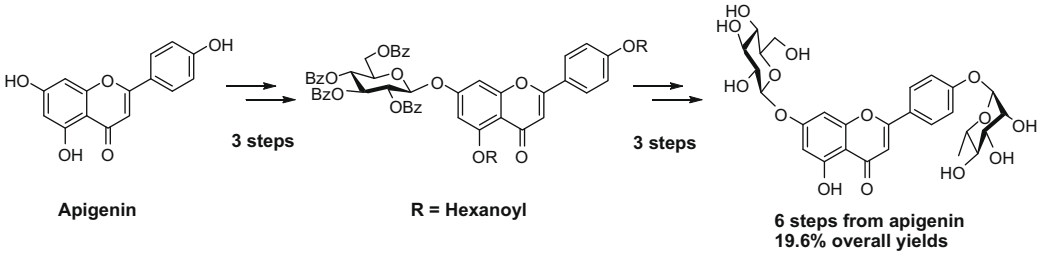
G F E C B A
α-Hep-2-α-Hep-3-α-DDHep2,7*PEtN*-5-α-Kdo4,8*PEtN*-6-β-GlcNac4*P*-6-α-GlcNac*P* LPS-Hy
|
β-Pse5Ac7Gra-6-β-Glc-4
K H

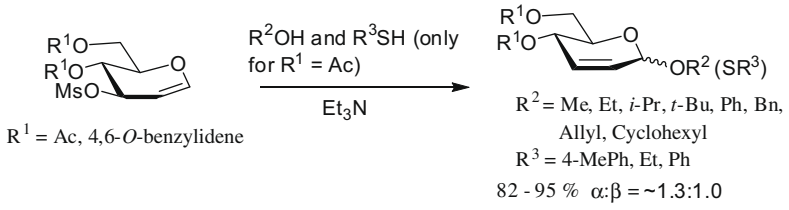


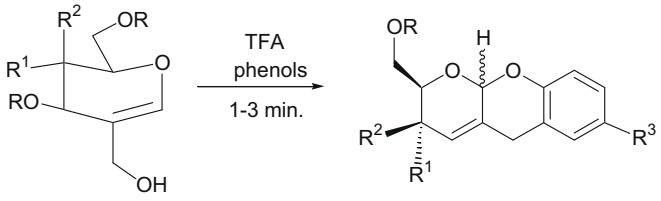
Notes

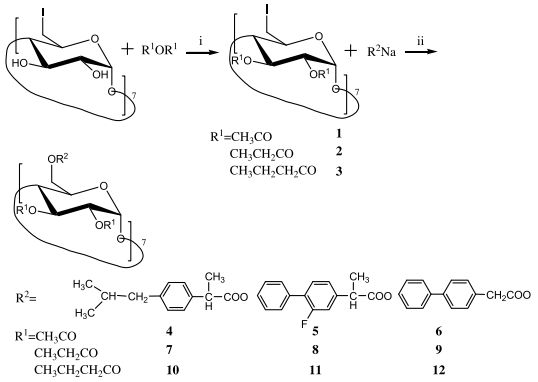






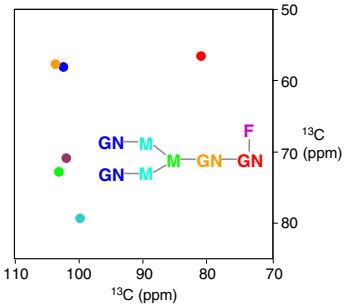


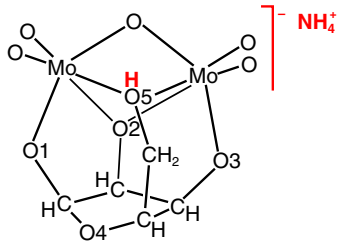




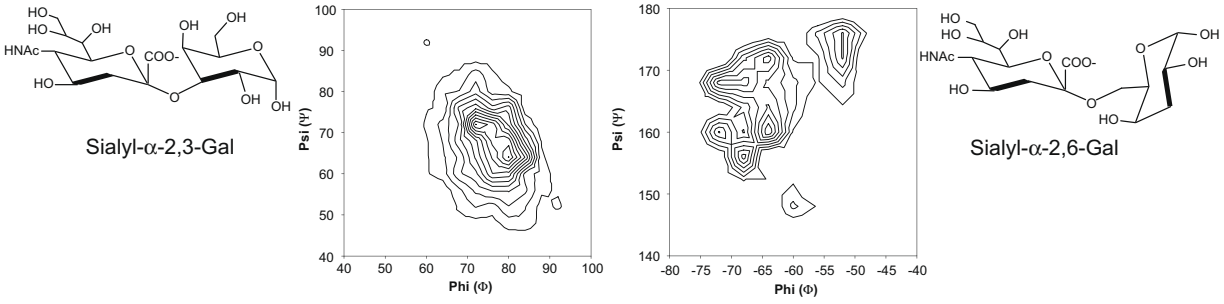
α-Tyvp
1
↓
3
→6)-α-D-Manp-(1→2)-α-D-Manp-(1→2)-β-D-Manp-(1→3)-α-D-GlcpNAc-(1 →

Yersinia pseudotuberculosis O:4a O-polysaccharide repeating unit





Add an ammonium counterion and a proton to the lyxofuranose-O5. This recipe makes the missing charge balance of a 1981 structure determination vanish. The correction is desirable since the title compound pioneered the field of metal complexation by reducing sugars: its publication almost three decades ago marks the first structure determination on a crystalline metal complex of a glycose.



*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect

COVER

Shown is a fluorescence image of cell-surface glycans in a 3-day old zebrafish larva. Dierent colors represent glycans biosynthesized at dierent times in development. The glycans were imaged in live zebrafish using a two-step approach termed the bioorthogonal chemical reporter strategy. Embryos were first metabolically labeled with the unnatural monosaccharide *N*-azidoacetylgalactosamine, which targets the core position of mucin-type O-glycans; subsequently, the azide-containing glycans were reacted with a cyclooctyne–fluorophore conjugate by copper-free click chemistry, a step that was repeated multiple times to target temporally distinct glycan pools with different fluorophores. This work is the result of a collaboration between the Departments of Chemistry and Molecular and Cell Biology at the University of California, Berkeley [Laughlin, S. T.; Baskin, J. M.; Amacher, S. L.; Bertozzi, C. R. *Science* **2008**, *320*, 664].

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