NatGlycan

News, July 23, 2020

NatGlycan announces availability of mg quantities of High Mannose N-Glycans with a single GlcNAc at reducing end for Synthesis of N-Glycopeptides by ENGase-catalyzed Transglycosylation.

NatGlycan's mission is to use its proprietary technology for the oxidative release of natural glycans (ORNG) from natural products to generate unprecedented quantities of biologically relevant complex glycans at affordable prices to make them available as research reagents for investigations on the biological role of glycans in normal physiology and disease. Our initial product offerings were 5 and 10 mg quantities of bifunctionally labeled high mannose N-glycans ($Man_5GlcNAc_2$-AEAB or -AA through $Man_9Glc_1GlcNAc_2$- AEAB or -AA) including all of the isomers of Man-7, and -8.

see Catalog at http://natglycan.com/wp-content/uploads/2019/10/Catalog_rev7.pdf

Interestingly, a major by product of our proprietary ORNG process is a degradation product of N-glycans that has lost a single reducing GlcNAc, leaving a library of very valuable substrates for synthesis of N-glycopeptides by ENGase-catalyzed transglycosylation as described in NatGlycan's first Technical report,

see Technical Report No. 1 at (http://natglycan.com/wp-content/uploads/2020/10/Technical-Report-No.-1.pdf)

We are now in the process of producing mg quantities of all isomers of high mannose N-glycans at purity of >90% for the synthesis of homogeneous glycopeptides and glycoproteins. These will be available in mg quantities as they are produced. Since these are common byproducts in the ORNG process, NatGlycan will be able to generate any natural N-glycan as its free reducing mono-GlcNAc derivative. As we build our inventory, please let us know what complex, single GlcNAc glycans you would be interested in and we will provide you a quote for mg quantities of material.