

N-Glycan Label, Mass Spec Grade

Cat. No. N-Glycan Label-53 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Molecular Formula: C₂₁H₂₅N₅O₅ Mass Shift: + C₁₇H₂₀N₄O₂ = 312.3663 Da
 Labeled N-Glycan (Da) = Released N-Glycan + Glycan Label Reagent - Reaction by-product (C₄H₅NO₃, MW: 115.0268) - H Product Composition: The ratio of N-Glycan Label: NHS compound is 3:2 analyzed by LC-QE HF. Labeling Efficiency: 99.5 % when 0.37 µg/µL mAb and 20 µg/µL N-Glycan tags are used to label 15 µg N-glycans released by glycoproteins. Thermal stability: N-Glycan labeling reagent is stable in anhydrous DMF at room temperature for 8 h; Labeled glycoamines are stable at room temperature for 24 h, and can withstand 320 centigrade of mass spectrometry ionization temperature. Chemical Instability: Unstable when concentrations of affinity reagents, SDS, Tris, DTT, amine, and mercaptans greater than 0.1 mM.

Description

N-glycan label is used in ultra-fast labeling of glycans of PNGase F glycosidase-digested N-linked glycoproteins (including antibodies). Labeled glycan has highly sensitive fluorescence characteristics and ionization properties by mass spectrometry, allowing for quantitative analysis using LC-FLR and LC-MS. The unique chemical properties of this label provide higher fluorescence quantification and mass spectrometry response.

Form

Lyophilized powder

Molecular Mass

427.1850 Da

Applications

4.5 mg N-Glycan labeling reagent can label five digested glycan samples.

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Storage	At -20 centigrade refrigerator as lyophilized powder.
CAS No.	61043-41-2
Shelf life	24 months at -20 centigrade.
Usage Notes	Reference Procedure: 1. Add 10 μ L desalted 1.5 μ g/ μ L mAb samples into 0.6 mL low protein binding collection tube. 2. Add 10 μ L 3 % BT Surfactant with 5 mM TCEP and 50 mM HEPES (pH 7.9) to the tube and mix well. 3. Heat at 95 centigrade for 3 min, then cool to the room temperature. 4. Add 10 μ L 1.5 U/ μ L rPNGase F and mix well. 5. Incubated at 50 centigrade for 15-30 min, then cool to room temperature. 6. Add 10 μ L 82 μ g/ μ L Glycan Label, incubate at room temperature for 5 min. 7. Add 15 μ L anhydrous DMF and 45 μ L acetonitrile. Mix well. Labeled N-glycan samples can be used for LC-FLR and LC-MS analysis.
Resuspension Buffer	Dissolve 4.5 mg N-Glycan label in 55 μ L freshly prepared DMF solution to reach 82 μ g/ μ L.