

**Product Name:** tri-GalNAc biotin

**Catalog No.:** 7635

**Batch No.:** 2

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>83</sub>H<sub>146</sub>N<sub>14</sub>O<sub>34</sub>S

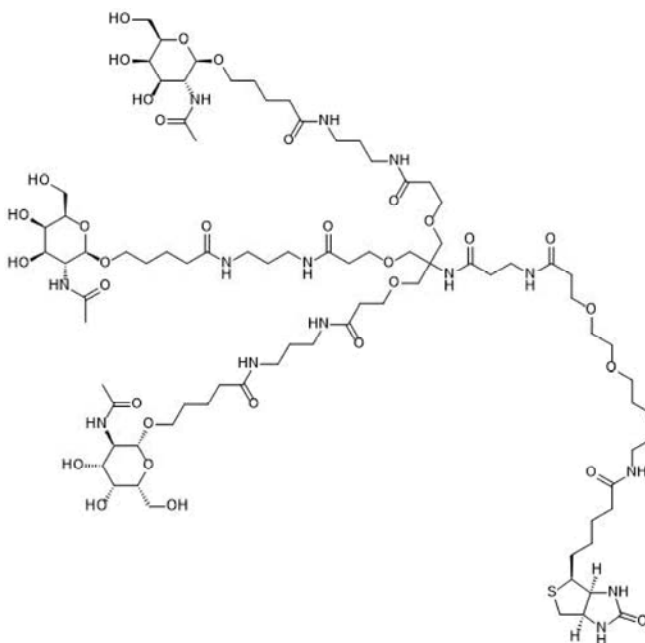
**Batch Molecular Weight:** 1916.21

**Physical Appearance:** White solid

**Solubility:** water to 50 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 95.3% purity

**Mass Spectrum:** Consistent with structure

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**2**

**Description:**

Tri-GalNAc-biotin is a biotinylated asialoglycoprotein receptor (ASGPR) ligand for lysosomal targeting chimera (LYTAC) research and development, comprising a triantennary N-acetylgalactosamine (GalNAc) joined by a PEG linker to biotin. Tri-GalNAc-biotin can induce ASGPR-mediated endocytosis and trafficking of fluorescently labeled neutravidin for lysosomal degradation in HepG2 cells in a time-dependent manner. The increase in fluorescent signal within cells plateaus after 16-20h, and this effect can be inhibited by addition of tri-GalNAc COOH (Cat. No. 7401).

**Physical and Chemical Properties:**

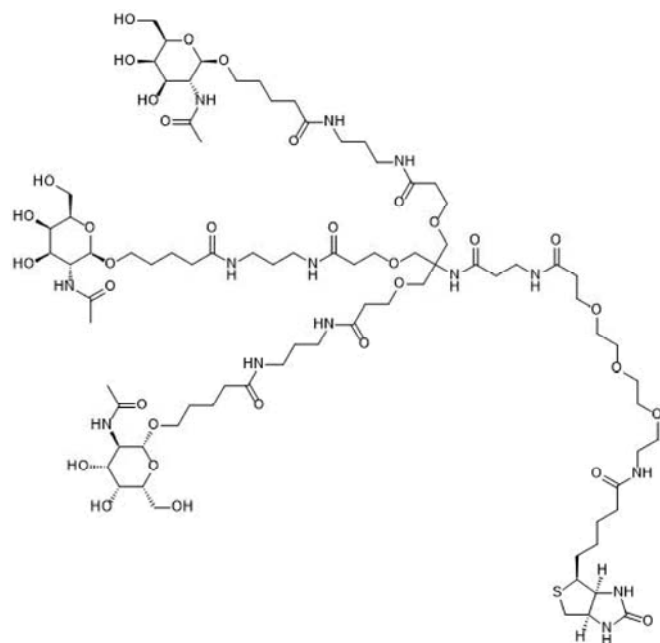
Batch Molecular Formula: C<sub>83</sub>H<sub>146</sub>N<sub>14</sub>O<sub>34</sub>S

Batch Molecular Weight: 1916.21

Physical Appearance: White solid

**Minimum Purity:** ≥90%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

water to 50 mM

This product is supplied as a lyophilised solid and may be very hard to visualise. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

Zhou *et al* (2021) Development of triantennary N-acetylgalactosamine conjugates as degraders for extracellular proteins. ACS Cent.Sci. 7 (3) 499. PMID: 33791431.

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