

CERTIFICATE OF ANALYSIS

GENERAL INFORMATION

Product No.: PE932030

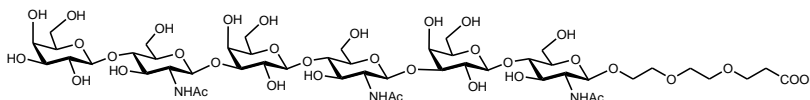
CAS No.: N/A

Product Name: Tri-LacNAc-PEG3-OH

Other Names: Tri-N-Acetyl-D-Lactosamine-PEG3-COOH; LN3-PEG3-COOH; (LacNAc)₃-PEG3-COOH; (Galβ1,4GlcNAc)₃-PEG3-COOH; 2-[2-(2-Carboxyethoxy)ethoxy]ethyl tri-N-acetyl-D-lactosamine

Description: The tri-LacNAc derivative is a carboxyl-functionalized synthetic 3-repeat unit of Poly-lactosamine (Poly-N-acetyllactosamine or Poly-LacNAc) equipped with a short triethylene glycol (PEG3) linker/spacer. Poly-LacNAc is a fundamental structure of glycans present on glycoproteins and glycolipids, and plays important roles in many biological processes. Poly LacNAc functions as a carbohydrate antigen and is thought to play roles in normal cellular recognition as well as in malignant transformation and metastasis.

Structure:



Formula: C₄₉H₈₃N₃O₃₅

Mol. Wt.: 1274.18

Exact Mass: 1273.48

CHARACTERIZATION

PROPERTY	OBSERVATION
Appearance & Physical State:	Clear, oil
Proton NMR (D₂O, 400 MHz):	Conforms
Mass Spectrometry (ESI-POS):	Conforms, [M+H] ⁺ = 1274.8 [2M+H] ³⁺ = 850.1 [M+H] ²⁺ = 637.9
Purity (>95% by HPLC):	Conforms, >99%

BATCH INFORMATION

Lot No.:	XXXXXX
Date Prepared:	XXXXXX

NOTES

1. Store long-term at -20 ± 5°C.
2. Keep dry. Allow container and contents to warm to room temperature before opening.