

CERTIFICATE OF ANALYSIS

GENERAL INFORMATION

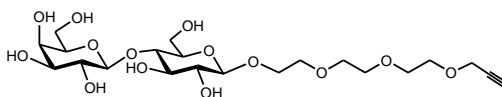
Product No.: PE931000

CAS No.: N/A

Product Name: β -D-Lac-PEG3-Propyne

Other Names: (Gal β 1-4Glc)- β -O-PEG3-Propyne; Beta-D-Lac-PEG3-Propyne; β -D-Lac-PEG3-Alkyne; Propargyl-PEG3 β -D-Lactopyranoside; (Dodec-11-yn-3,6,9-trioxadodecyl) β -D-lactopyranoside; 2-[2-[2-(Prop-2-ynyloxy)ethoxy]ethoxy]ethyl β -D-lactopyranoside

Structure:



Formula: C₂₁H₃₆O₁₄

Mol. Wt.: 512.5

Exact Mass: 512.2

CHARACTERIZATION

PROPERTY

OBSERVATION

Appearance & Physical State:

White, solid powder

Proton (¹H) NMR (D₂O, 400 MHz):

Conforms,
2.87 (t, 1H, C \equiv C-H)²
4.225 (d, 2H, -CH₂-C \equiv C)³

Mass Spectrometry (ESI-POS):

Conforms, [M+H]⁺ = 513.2
[2M+H]⁺ = 1025.4
[3M+H]⁺ = 1537.7

BATCH INFORMATION

Lot No.:

XXXXXXX

Date Prepared:

XXXXXXX

NOTES

1. Store as lyophilized powder at $-20 \pm 5^{\circ}\text{C}$ and keep dry.
2. Alkynyl proton is readily exchanged in D₂O and therefore presents a very weak signal in the NMR.
3. Protons beta to alkyne normally display as a doublet but due to alkynyl proton exchange, no coupling is observed.