

## CERTIFICATE OF ANALYSIS

### GENERAL INFORMATION

**Product No.:** PE935000

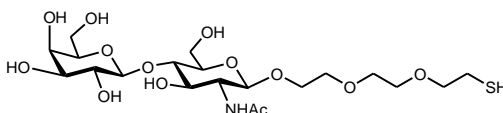
**CAS No.:** 1243241-80-6

**Product Name:** Lactose Ligand:  $\beta$ -Lac-PEG3-Thiol

**Other Names:**  $\beta$ -Lac-PEG3-SH; Gal $\beta$ 1-4Glc-PEG3-SH; 2-[2-(2-Mercaptoethoxy)ethoxy]ethyl  $\beta$ -D-lactopyranoside; (8-Mercapto-3,6-dioxaoctyl)  $\beta$ -D-lactopyranoside

**Description:** N/A

**Structure:**



**Formula:** C<sub>18</sub>H<sub>34</sub>O<sub>13</sub>S

**Mol. Wt.:** 490.52

**Exact Mass:** 490.17

### CHARACTERIZATION

**PROPERTY**

**OBSERVATION**

**Appearance & Physical State:**

White, solid powder

**Proton NMR (D<sub>2</sub>O, 400 MHz):**

Conforms

**Mass Spectrometry (ESI-POS):**

Conforms, [M+H]<sup>+</sup> = 491.2  
[M+Na]<sup>+</sup> = 513.2  
[2M+H]<sup>+</sup> = 981.4  
[2M+Na]<sup>+</sup> = 1003.7

**Purity (>95% by HPLC):**

N/A

### BATCH INFORMATION

**Lot No.:**

XXXXXX

**Date Prepared:**

XXXXXX

### NOTES

1. Store as lyophilized powder at -20 ± 5°C.
2. Keep dry. Allow container and contents to warm to room temperature before opening.
3. There is no detectable disulfide dimer. To prevent formation of dimeric species, do not store in solution.