## **Certificate of Analysis**

## Biotin-PEG4-hydrazide

Cat. No.: HY-140932 CAS No.: 756525-97-0 Batch No.: 451184

**Chemical Name:** 4,7,10,13-Tetraoxa-16-azaheneicosanoic acid, 21-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-

d]imidazol-4-yl]-17-oxo-, hydrazide

## PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula:  $C_{21}H_{39}N_5O_7S$ 

**Molecular Weight:** 505.63

Storage: Powder -20°C 3 years

> 4°C 2 years

In solvent -80°C 6 months

> -20°C 1 month

**Chemical Structure:** 

 $\bigcap_{HN} \bigcap_{N} \bigcap_{M} \bigcap_{N} \bigcap_{M} \bigcap_{N} \bigcap_{M} \bigcap_{N} \bigcap_{M} \bigcap_{N} \bigcap_{M} \bigcap_{$ 

## **ANALYTICAL DATA**

Appearance: White to off-white (Solid) <sup>1</sup>H NMR Spectrum: Consistent with structure LCMS: Consistent with structure

Purity (LCMS): 98.00%

Conclusion: The product has been tested and complies with the given specifications.

Caution: Product has not been fully validated for medical applications. For research use only.

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