## **Certificate of Analysis**

## Mal-amido-PEG4-NHS ester

Cat. No.: HY-W040134 CAS No.: 756525-99-2 Batch No.: 158989

**Chemical Name:** 4,7,10,13-Tetraoxa-16-azanonadecanoic acid, 19-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)-17-oxo-,

2,5-dioxo-1-pyrrolidinyl ester

## PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula:  $C_{22}H_{31}N_3O_{11}$ **Molecular Weight:** 513.50

Storage: Powder -20°C 3 years

> In solvent -80°C 6 months

> > -20°C 1 month

**Chemical Structure:** 

## **ANALYTICAL DATA**

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

Purity (LCMS): 99.18%

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

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

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