

# Certificate of Analysis

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# N-Mal-N-bis(PEG2-NHS ester)

Cat. No.:	HY-140571
CAS No.:	2182601-73-4
Batch No.:	105289
Chemical Name:	4,7,13,16-Tetraoxa-10-azanonadecanedioic acid, 10-[3-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)-1-
	oxopropyl]-, 1,19-bis(2,5-dioxo-1-pyrrolidinyl) ester

### PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula:	C <sub>29</sub> H <sub>38</sub> N <sub>4</sub> O <sub>15</sub>	
Molecular Weight:	682.63	
Storage:	-20°C, protect from light, stored under nitrogen	
	* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)	

**Chemical Structure:** 

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## ANALYTICAL DATA

Appearance:	Colorless to light yellow (Liquid)
<sup>1</sup> H NMR Spectrum:	Consistent with structure
Purity (HPLC):	98.86%
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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