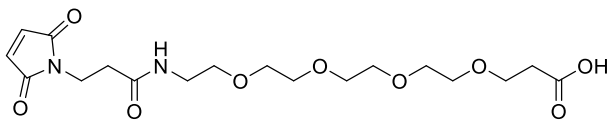




Certificate of Analysis

MedKoo Cat#:	Product Name:	Lot#:
572883	Mal-amido-PEG4-acid	PP200625

Chemical name	
1-(2,5-dioxo-2,5-dihydro-1H-pyrrol-1-yl)-3-oxo-7,10,13,16-tetraoxa-4-azanonadecan-19-oic acid	
Synonyms	
Mal-amido-PEG4-acid	
Chemical structure	CAS# and Theoretical analysis
	MedKoo Cat#: 572883 Name: Mal-amido-PEG4-acid CAS#: 1263045-16-4 Lot#: PP200625 Chemical Formula: C ₁₈ H ₂₈ N ₂ O ₉ Exact Mass: 416.1795 Molecular Weight: 416.43

Analysis item	Specifications / Results
Appearance	White Solid
Structure	¹ H-NMR analysis matches the structure. MS analysis gives the correct molecule weight. Both NMR and MS data are consistent with those reported in the literature.
Purity (HPLC)	>98.0%
Solubility	Soluble in DMSO
Conclusion	This product conforms with MedKoo's quality standards
Shipping condition	Shipped under ambient temperature as non-hazardous chemical. This product is stable for a few weeks during ordinary shipping and time spent in customs.
Storage condition	Short term storage (weeks): 0 – 4 °C under dry condition Long term storage (months): -20 °C under dry condition
Shelf life	At least 5 years if properly stored.

CAUTION: NOT FULLY TESTED. FOR RESEARCH ONLY, NOT FOR HUMAN USE