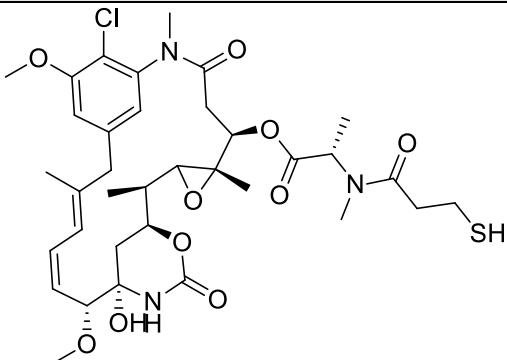




## Certificate of Analysis

<b>MedKoo Cat#:</b>	<b>Product Name:</b>	<b>Lot#:</b>
123212	Mertansine (DM1)	A7T12K27

Chemical name	
(14S,16S,33S,2R,4R,10E,12Z,14R)-86-chloro-14-hydroxy-85,14-dimethoxy-33,2,7,10-tetramethyl-12,6-dioxo-7-aza-1(6,4)-oxazinana-3(2,3)-oxirana-8(1,3)-benzenacyclotetradecaphane-10,12-dien-4-yl N-(3-mercaptopropanoyl)-N-methyl-L-alaninate	
Synonyms	
DM1; DM-1; DM 1; DM1 Compound; DM1 [Maytansinoid]; Maytansinoid DM 1; Maytansinoid DM1; Maytansinoid DM-1; UNII-DDZ29HGH0E; maytansine, Mertansine; emtansine.	
Chemical structure	CAS# and Theoretical analysis
	MedKoo Cat#: 123212 Name: Mertansine (DM1) CAS#: 139504-50-0 Lot#: A7T12K27 Chemical Formula: C <sub>35</sub> H <sub>48</sub> ClN <sub>3</sub> O <sub>10</sub> S Exact Mass: 737.27489 Molecular Weight: 738.29

Analysis item	Specifications / Results
Appearance	White to off-white solid powder
Structure	<sup>1</sup> 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)	>99.0%
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.