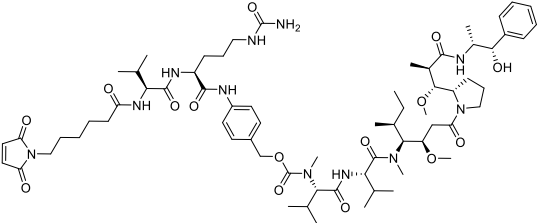




## Certificate of Analysis

MedKoo Cat#:	Product Name:	Lot#:
407406	VcMMAE	A7T12K06

Chemical name	
4-((S)-2-((S)-2-(6-(2,5-dioxo-2,5-dihydro-1H-pyrrol-1-yl)hexanamido)-3-methylbutanamido)-5-ureidopentanamido)benzyl ((S)-1-(((S)-1-(((3R,4S,5S)-1-((S)-2-((1R,2R)-3-(((1S,2R)-1-hydroxy-1-phenylpropan-2-yl)amino)-1-methoxy-2-methyl-3-oxopropyl)pyrrolidin-1-yl)-3-methoxy-5-methyl-1-oxoheptan-4-yl)(methyl)amino)-3-methyl-1-oxobutan-2-yl)amino)-3-methyl-1-oxobutan-2-yl)(methyl)carbamate	
Synonyms	
VcMMAE; Vc-MMAE; MC-VC-PAB-MMAE; MMAE Vc linker, MMAE antibody conjugate	
Chemical structure	CAS# and Theoretical analysis
	MedKoo Cat#: 407406 Name: VcMMAE CAS#: 646502-53-6 Lot# A7T12K06 Chemical Formula: C <sub>68</sub> H <sub>105</sub> N <sub>11</sub> O <sub>15</sub> Exact Mass: 1315.7792 Molecular Weight: 1316.65

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)	>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**