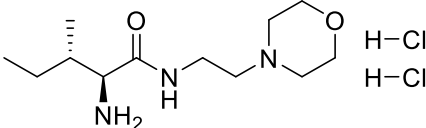




Certificate of Analysis

MedKoo Cat#:	Product Name:	Lot#:
555874	LM11A-31 HCl	C21R02B07

Chemical name	
(2S,3S)-2-amino-3-methyl-N-[2-(4-morpholinyl)ethyl]-pentanamide, dihydrochloride	
Synonyms	
LM11A-31 HCl; LM11A-31 hydrochloride; LM11A-31; LM11A 31; LM11A31; LM 11A-31; LM 11A31; LM-11A-31;	
Chemical structure	CAS# and Theoretical analysis
	MedKoo Cat#: 555874 Name: LM11A-31 HCl CAS#: 1243259-19-9 (HCl) Lot#: C21R02B07 Chemical Formula: C ₁₂ H ₂₇ Cl ₂ N ₃ O ₂ Molecular Weight: 316.27

Analysis item	Specifications / Results
Appearance	Pale yellow solid powder (<i>Note: this product is highly hygroscopic, may become semisolid or waxy solid, which would not impact the quality</i>).
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	>96.0%
Solubility	Water to 100 mM; DMSO to 100 mM
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