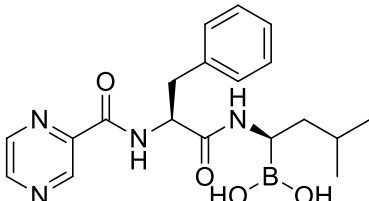




Certificate of Analysis

MedKoo Cat#:	Product Name:	Lot#:
100100	Bortezomib	TZC60223

Chemical name	
((R)-3-methyl-1-((S)-3-phenyl-2-(pyrazine-2-carboxamido)propanamido)butyl)boronic acid	
Synonyms	
US brand name: VELCADE. Code names: LDP 341; MLN341; PS-341	
Chemical structure	CAS# and Theoretical analysis
	MedKoo Cat#: 100100 Name: Bortezomib CAS#: 179324-69-7 Lot#: TZC60223 Chemical Formula: C ₁₉ H ₂₅ BN ₄ O ₄ Exact Mass: 384.19689 Molecular Weight: 384.24

Analysis item	Specifications / Results
Appearance	White to off-white solid powder
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)	>99.0%
Solubility	Soluble in DMF,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