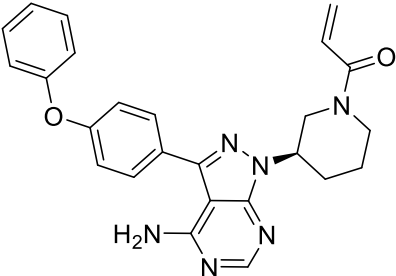




Certificate of Analysis

MedKoo Cat#:	Product Name:	Lot#:
202171	Ibrutinib (PCI-32765)	A20T06K16

Chemical name	
(R)-1-(3-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)piperidin-1-yl)prop-2-en-1-one	
Synonyms	
PCI-32765; PCI32765; PCI 32765	
Chemical structure	CAS# and Theoretical analysis
	MedKoo Code#: 202171 Name: Ibrutinib CAS#: 936563-96-1 Lot#: A20T06K16 Chemical Formula: C ₂₅ H ₂₄ N ₆ O ₂ Exact Mass: 440.19607 Molecular Weight: 440.50

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 DMSO at 85 mg/mL
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