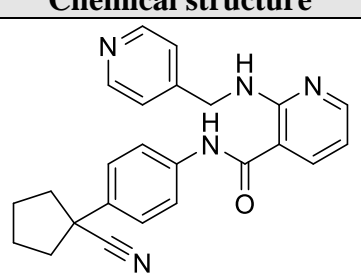


Certificate of Analysis

MedKoo Cat#:	Product Name:	Lot#:
123316	Apatinib free base	T22D06P08

Chemical name	
N-(4-(1-cyanocyclopentyl)phenyl)-2-((pyridin-4-ylmethyl)amino)nicotinamide	
Synonyms	
Apatinib free base, YN-968D1; YN 968D1; YN968D1; Rivoceranib	
Chemical structure	CAS# and Theoretical analysis
	MedKoo Cat#: 123316 Name: Apatinib free base CAS#: 811803-05-1 Lot#: T22D06P08 Chemical Formula: C ₂₄ H ₂₃ N ₅ O Exact Mass: 397.1903 Molecular Weight: 397.48

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%
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