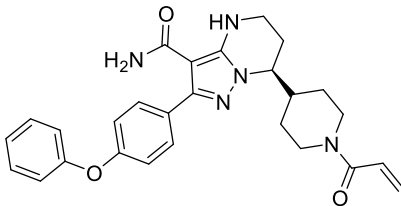


Certificate of Analysis

MedKoo Cat#:	Product Name:	Lot#:
206830	Zanubrutinib	T20D06P09

Chemical name	
(7S)-4,5,6,7-Tetrahydro-7-[1-(1-oxo-2-propen-1-yl)-4-piperidinyl]-2-(4-phenoxyphenyl)pyrazolo[1,5-a]pyrimidine-3-carboxamide	
Synonyms	
BGB-3111; BGB 3111; BGB3111; Zanubrutinib; Brukinsa.	
Chemical structure	CAS# and Theoretical analysis
	MedKoo Cat#: 206830 Name: Zanubrutinib CAS#: 1691249-45-2 (S-isomer) Lot#: T20D06P09 Chemical Formula: C ₂₇ H ₂₉ N ₅ O ₃ Exact Mass: 471.227 Molecular Weight: 471.56

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
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