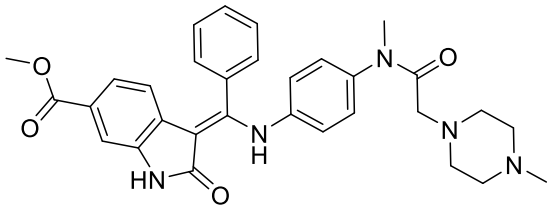




Certificate of Analysis

MedKoo Cat#:	Product Name:	Lot#:
200496	Nintedanib	TZC50508

Chemical name	
(Z)-methyl 3-(((4-(N-methyl-2-(4-methylpiperazin-1-yl)acetamido)phenyl)amino)(phenyl)methylene)-2-oxoindoline-6-carboxylate	
Synonyms	
BIBF1120; BIBF 1120; BIBF-1120; Nintedanib. Brand name: Vargatef.	
Chemical structure	CAS# and Theoretical analysis
	MedKoo Cat#: 200496 Name: Nintedanib CAS#: 656247-17-5 (free base) Lot#: TZC50508 Chemical Formula: C ₃₁ H ₃₃ N ₅ O ₄ Exact Mass: 539.25325 Molecular Weight: 539.62

Analysis item	Specifications / Results
Appearance	Yellow 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 and 5% HCl, very poorly soluble in ethanol; very poorly soluble in water.
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