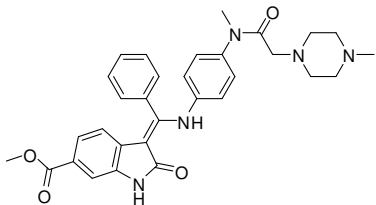




## Certificate of Analysis

<b>Axon Catalogue ID:</b>	2648	<b>Batch Number:</b>	3
<b>Product Name:</b>	Nintedanib		
<b>Alternative Name(s):</b>	BIBF-1120		
<b>IUPAC Name:</b>	(Z)-Methyl 3-((4-(N-methyl-2-(4-methylpiperazin-1-yl)acetamido)phenylamino)(phenyl)methylene)-2-oxoindoline-6-carboxylate		
<b>Structure:</b>			<b>Amount:</b>
<b>CAS number(s):</b>	656247-17-5		
<b>Molecular Formula:</b>	C31H33N5O4	<b>Molecular Weight:</b>	539.62
<b>Batch Molecular Formula:</b>	C31H33N5O4.0.5H2O	<b>Batch Molecular Weight:</b>	548.63
<b>Appearance:</b>	Yellow solid	<b>Observed mp:</b>	>245 °C (decomp)
<b>TLC (R<sub>f</sub>):</b>	0.23	DCM/MeOH (9:1)	
<b>Chemical Purity:</b>	100%		
<b><sup>1</sup>H-NMR:</b>	Analytical data confirm chemical structure		
<b>Mass Spec:</b>	Analytical data confirm chemical structure		
<b>Microanalysis:</b>	Calculated: C 67.87, H 6.25, N 12.77; Found: C 68.04, H 6.00, N 12.77		
<b>Storage Conditions:</b>	Store at +4 °C		
<b>Solubility Data:</b>	<b>Solvent</b>	<b>Solubility (mg/ml)</b>	<b>Solubility (mM)</b>
	Water	0.0	0.0
	0.1N NaOH (aq)		
	0.1N HCl (aq)	7.4	13.5
	DMSO	12.0	21.9
	EtOH	3.3	6.1
			* Warming (40°C)
			* Warming (40°C) and sonication
<b>Remarks:</b>	* Warming (40°C) and/or sonication enhanced solubility.		
<b>QC Date:</b>	16-8-2022		

The purity of Axon Ligands is confirmed by HPLC, MS, NMR and/or microanalysis. Analytical data are available upon request. Request can be submitted by e-mail to [info@axonmedchem.com](mailto:info@axonmedchem.com) indicating Catalogue ID and Batch number.

**Caution: Not fully tested. For research purposes only**