

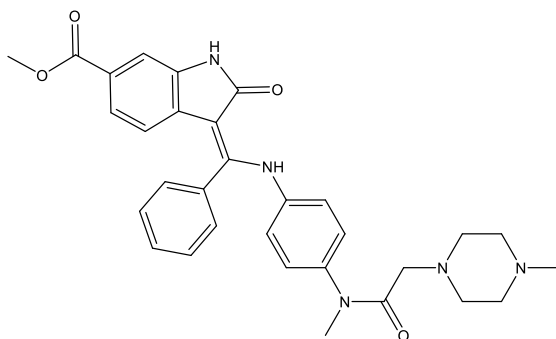
Catalog # 10-3320

Nintedanib

CAS# 656247-17-5

(3Z)-2,3-Dihydro-3-[[[4-[methyl[2-(4-methyl-1-piperazinyl)acetyl]amino]phenyl]amino]phenylmethylene]-2-oxo-1H-indole-6-carboxylic acid methyl ester; BIBF-1120

Lot # R110623



A potent inhibitor of VEGFR, PDGFR, FGFR (IC₅₀ = 13-34 nM for VEGFR, 59-65 nM for PDGFR and 37-108 nM for FGFR subtypes).¹ Also inhibits Flt-3, Lck, Lyn and Src (IC₅₀ = 16-156 nM). Inhibits VEGF-stimulated proliferation of HUVECs.¹ Inhibits tumor growth in a mouse tumor xenograft model.¹ A novel therapeutic agent for treatment of idiopathic pulmonary fibrosis.^{2,3} Alleviates chronic pancreatitis by inhibiting the activation of pancreatic stellate cells.⁴

- 1) Hilberg *et al.* (2008), *BIBF-1120: triple angiokinase inhibitor with sustained receptor blockade and good antitumor efficacy*; *Cancer Res.* **68** 4774
- 2) Dimitroulis *et al.* (2014), *Nintedanib: a novel therapeutic approach for idiopathic pulmonary fibrosis*; *Respir. Care* **59** 1450
- 3) Guo *et al.* (2023), *Progress in understanding and treating idiopathic pulmonary fibrosis: recent insights and emerging therapies*; *Front. Pharmacol.* **14** 1205948
- 4) Han *et al.* (2023), *Nintedanib Alleviates Chronic Pancreatitis by Inhibiting the Activation of Pancreatic Stellate Cells via the JAK/STAT3 and ERK1/2 Pathways*; *Dig. Dis. Sci.* **68** 3644

PHYSICAL DATA

Molecular Weight:	539.64
Molecular Formula:	C ₃₁ H ₃₃ N ₅ O ₄
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (4 mg/ml)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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