Web: www.taiclone.com
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Nintedanib

Catalog No: tcsc0104

Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg

Size: 200mg

Size: 500mg

Size: 1g

Size: 2g

Specifications

CAS No:
656247-17-5

Formula:
$C_{31}H_{33}N_5O_4$

Pathway:
Protein Tyrosine Kinase/RTK;Protein Tyrosine Kinase/RTK;Protein Tyrosine Kinase/RTK

Target:
VEGFR;PDGFR;FGFR

Purity / Grade:
>98%

Solubility:
DMSO : 20 mg/mL (37.06 mM; Need ultrasonic and warming); H2O :

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Alternative Names:
BIBF 1120

Observed Molecular Weight:
539.62

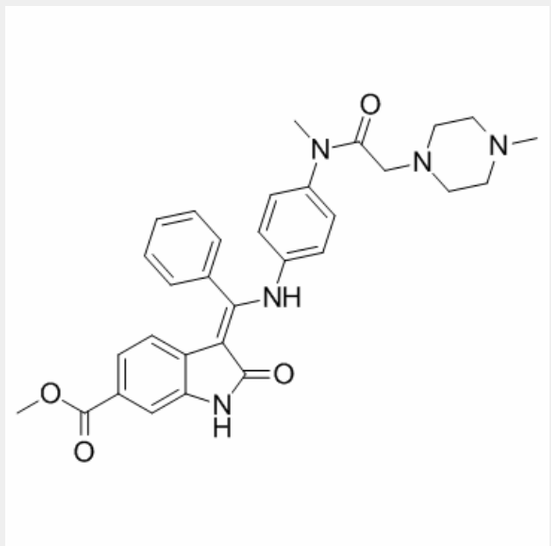
Product Description

BIBF 1120 is a potent triple angiokinase inhibitor for **VEGFR1/2/3**, **FGFR1/2/3** and **PDGFRα/β** with **IC_{50}**s of 34 nM/13 nM/13 nM, 69 nM/37 nM/108 nM and 59 nM/65 nM, respectively.

IC50 & Target: IC50: 34 nM (VEGFR1), 13 nM (VEGFR2), 13 nM (VEGFR3), 69 nM (FGFR1), 37 nM (FGFR1), 108 nM (FGFR1), 59 nM (PDGFRα), 65 nM (PDGFRβ)

In Vitro: Nintedanib (BIBF 1120) binds to the ATP-binding site in the cleft between the amino and carboxy terminal lobes of the kinase domain. Nintedanib (BIBF 1120) inhibits proliferation of PDGF-BB stimulated BRPs with EC_{50} of 79 nM in cell assays. Nintedanib (BIBF 1120) (100 nM) blocks activation of MAPK after stimulation with 5% serum plus PDGF-BB. Nintedanib (BIBF 1120) prevents PDGF-BB stimulated proliferation with an EC_{50} of 69 nM in cultures of human vascular smooth muscle cells (HUASMC)[1].

In Vivo: Nintedanib (BIBF 1120) (25-100 mg/kg daily p.o.) is highly active in all tumor models, including human tumor xenografts growing in nude mice and a syngeneic rat tumor model. This is evident in the magnetic resonance imaging of tumor perfusion after 3 days, reducing vessel density and vessel integrity after 5 days, and profound growth inhibition[1]. Nintedanib (BIBF 1120) is orally available and displays encouraging efficacy in in vivo tumor models while being well tolerated[2].



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