SZABO SCANDIC

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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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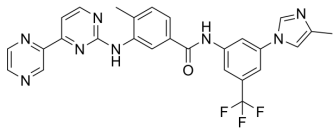
Radotinib

Cat. No.:	HY-15728
CAS No.:	926037-48-1
Molecular Formula:	$C_{27}H_{21}F_3N_8O$
Molecular Weight:	530.5
Target:	Bcr-Abl
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 6.25 mg/mL (11.78 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.8850 mL	9.4251 mL	18.8501 mL
	5 mM	0.3770 mL	1.8850 mL	3.7700 mL
	10 mM	0.1885 mL	0.9425 mL	1.8850 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 0.62 mg/mL (1.17 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 0.62 mg/mL (1.17 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Radotinib(IY-5511) is a novel and selective BCR-ABL1 tyrosine kinase inhibitor with IC50 of 34 nM for wild-type BCR-ABL1 kinase.IC50 value: 34 nM [1]Target: BCR-ABL1 inhibitorRadotinib is a BCR-ABL1 specific 2nd-generation tyrosine kinase inhibitor. According to recently conducted in vitro kinase assays, the IC50 value for radotinib against wild-type BCR-ABL1 kinase was 34 nM, which is relatively lower compared with the IC50 levels of c-kit (1,324 nM), PDGFR (PDGFRα, 75.5 nM; PDGFRβ, 130 nM) and src (>2,000 nM). Also, radotinib effectively inhibited the proliferation of common mutant clones of BCR-ABL1, with the exception of T315I. In an off-target kinase assay to assess safety, DDR, EPHB, LYN, and PDGFR kinases were inhibited below the 180 nM level.

REFERENCES

[1]. Kim SH, et al. Efficacy and safety of radotinib in chronic phase chronic myeloid leukemia patients with resistance or intolerance to BCR-ABL1 tyrosine kinase inhibitors. Haematologica. 2014 Jul;99(7):1191-6.

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