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

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

CZC-8004

Cat. No.: HY-111138

CAS No.: 916603-07-1

Molecular Formula: $C_{17}H_{16}FN_5$

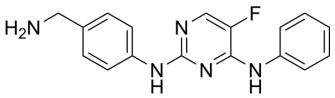
Molecular Weight: 309.34

Target: EGFR; VEGFR

Pathway: JAK/STAT Signaling; Protein Tyrosine Kinase/RTK

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 77.5 mg/mL (250.53 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.2327 mL	16.1634 mL	32.3269 mL
	5 mM	0.6465 mL	3.2327 mL	6.4654 mL
	10 mM	0.3233 mL	1.6163 mL	3.2327 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: ≥ 2.58 mg/mL (8.34 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.58 mg/mL (8.34 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.58 mg/mL (8.34 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

CZC-8004 (CZC-00008004), an aminopyrimidine, is a pan-kinase inhibitor. CZC-8004 can bind a range of tyrosine kinases, including EGFR and VEGFR2 with IC_{50} values of 650 and 437 nM, respectively.CZC-8004 has antitumor activity[1][2][3].

IC_{50} & Target

IC50: 650 nM (EGFR) and 437 nM (VEGFR2)[1]

REFERENCES

[1]. Ying ZD, et, al. Integrated in silico-in vitro analysis of systematic kinase gatekeeper mutation effects on pan-kinase inhibitors in targeted liver cancer therapy. J Chin Chem Soc. 2020 Oct 29;1-10.

[2]. Deane FM, et, al. FD5180, a Novel Protein Kinase Affinity Probe, and the Effect of Bead Loading on Protein Kinase Identification. ACS Omega. 2017 Jul 31;2(7):3828-3838.

[3]. Klutchko SR, et al. 2-Substituted aminopyrido[2,3-d]pyrimidin-7(8H)-ones. structure-activity relationships against selected tyrosine kinases and in vitro and in vivo anticancer activity. J Med Chem. 1998 Aug 13;41(17):3276-92.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA