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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

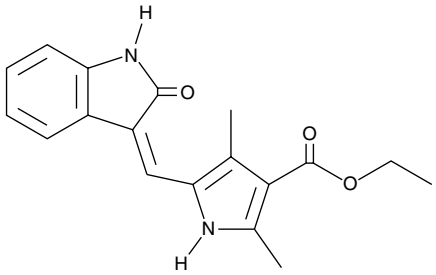
linkedin.com/company/szaboscandic

Product Information

VEGFR2 Kinase Inhibitor I

Item No. 13578

CAS Registry No.: 15966-93-5
Formal Name: 5-[(1,2-dihydro-2-oxo-3H-indol-3-ylidene)methyl]-2,4-dimethyl-1H-pyrrole-3-carboxylic acid, ethyl ester
Synonym: SU 5408
MF: $C_{18}H_{18}N_2O_3$
FW: 310.4
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 210, 266, 418 nm



Laboratory Procedures

For long term storage, we suggest that VEGFR2 kinase inhibitor I be stored as supplied at -20°C. It should be stable for at least two years.

VEGFR2 kinase inhibitor I is supplied as a crystalline solid. A stock solution may be made by dissolving the VEGFR2 kinase inhibitor I in the solvent of choice. VEGFR2 kinase inhibitor I is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of VEGFR2 kinase inhibitor I in these solvents is approximately 1 mg/ml.

VEGFR2 kinase inhibitor I is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Vascular endothelial growth factor receptor 2 (VEGFR2, also known as KDR and FLK1) is a receptor tyrosine kinase that regulates angiogenesis, vascular development, and embryonic hematopoiesis in response to VEGF isoforms A, C, and D. VEGFR2 kinase inhibitor I is a potent, cell-permeable inhibitor of mouse VEGFR2 kinase (IC_{50} = 70 nM).[1] It has little or no effect against receptors for platelet-derived growth factor, epidermal growth factor, or insulin-like growth factor (IC_{50} > 100 µM).[1]

Reference

1. Sun, L., Tran, N., Tang, F., *et al.* Synthesis and biological evaluations of 3-substituted indolin-2-ones: A novel class of tyrosine kinase inhibitors that exhibit selectivity toward particular receptor tyrosine kinases. *J. Med. Chem.* **41(14)**, 2588-2603 (1998).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/13578

Cayman Chemical

Mailing address
1180 E. Ellsworth Road
Ann Arbor, MI
48108 USA

Phone
(800) 364-9897
(734) 971-3335

Fax
(734) 971-3640

E-Mail
custserv@caymanchem.com

Web
www.caymanchem.com