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- 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

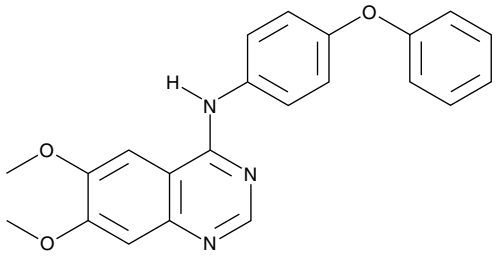
linkedin.com/company/szaboscandic

Product Information

Src Kinase Inhibitor I

Item No. 14592

CAS Registry No.: 179248-59-0
Formal Name: 6,7-dimethoxy-N-(4-phenoxyphenyl)-4-quinazolinamine
MF: $C_{22}H_{19}N_3O_3$
FW: 373.4
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 223, 253, 344 nm



Laboratory Procedures

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

Src kinase inhibitor I is supplied as a crystalline solid. A stock solution may be made by dissolving the Src kinase inhibitor I in the solvent of choice. Src kinase inhibitor I is soluble in organic solvents such as DMSO and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of Src kinase inhibitor I in these solvents is approximately 2.5 and 0.25 mg/ml, respectively.

Src kinase inhibitor I is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, Src kinase inhibitor I should first be dissolved in DMF and then diluted with the aqueous buffer of choice. Src kinase inhibitor I has a solubility of approximately 0.33 mg/ml in a 1:2 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

The Src kinases constitute a family of non-receptor tyrosine kinases, which includes Src and Lck. Src kinase inhibitor I is a potent competitive inhibitor of both Src and Lck (IC_{50} = 44 and 88 nM, respectively), as well as Csk and Yes.[1,2] It less effectively blocks the receptor tyrosine kinases VEGFR2 and C-fms (IC_{50} = 0.32 and 30 µM), as well as a long list of serine/threonine kinases.[1,2] Src Kinase Inhibitor I also inhibits receptor-interacting protein-2 with an IC_{50} value of 26 nM.[2]

References

1. Tian, G., Cory, M., Smith, A.A., *et al.* Structural determinants for potent, selective dual site inhibition of human pp60$^{c\text{-}src}$ by 4-anilinoquinazolines. *Biochemistry* **40(24)**, 7084-7091 (2001).
2. Bain, J., Plater, L., Elliot, M., *et al.* The selectivity of protein kinase inhibitors: A further update. *Biochem. J.* **408**, 297-315 (2007).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/14592

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