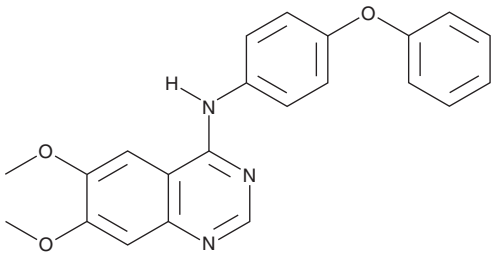
PRODUCT INFORMATION

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%
UV/Vis.:	λ_{max}: 223, 253, 344 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

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, which should be purged with an inert gas. Src kinase inhibitor I is soluble in organic solvents such as DMSO and dimethyl formamide (DMF). 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.

Description

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 pp60c-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(3)**, 297-315 (2007).

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