



# SZABO SCANDIC

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## Produktinformation



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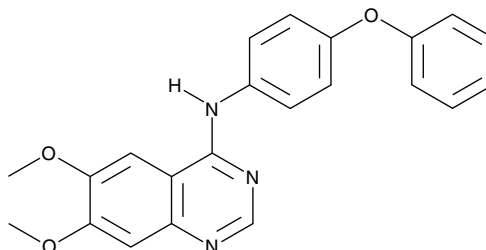
# Product Information



## 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<sub>22</sub>H<sub>19</sub>N<sub>3</sub>O<sub>3</sub>  
**FW:** 373.4  
**Purity:** ≥98%  
**Stability:** ≥2 years at -20°C  
**Supplied as:** A crystalline solid  
**UV/Vis.:** λ<sub>max</sub>: 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<sub>50</sub> = 44 and 88 nM, respectively), as well as Csk and Yes.<sup>1,2</sup> It less effectively blocks the receptor tyrosine kinases VEGFR2 and C-fms (IC<sub>50</sub> = 0.32 and 30 μM), as well as a long list of serine/threonine kinases.<sup>1,2</sup> Src Kinase Inhibitor I also inhibits receptor-interacting protein-2 with an IC<sub>50</sub> value of 26 nM.<sup>2</sup>

### References

1. Tian, G., Cory, M., Smith, A.A., *et al.* Structural determinants for potent, selective dual site inhibition of human pp60<sup>c-src</sup> 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](http://www.caymanchem.com/catalog/14592)

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