

Store at
-20°C
#73901

PP2

5 mg

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For Research Use Only. Not for Use in Diagnostic Procedures.

Background

PP2 is a potent and selective inhibitor of Src-family kinases. This small molecule inhibits Lck ($IC_{50} = 4$ nM), Fyn ($IC_{50} = 5$ nM), and Hck ($IC_{50} = 5$ nM) with little to no effect on ZAP-70 ($IC_{50} > 100$ μ M) and JAK2 ($IC_{50} > 50$ μ M) (1). Members of the Src family are involved in the regulation of cellular excitability and synaptic plasticity. Inhibition of Src family nonreceptor protein tyrosine kinases (PTKs) can decrease epileptiform activity, making PP2 an important compound when studying epilepsy and antiepileptic therapies (2).

Molecular FormulaC₁₅H₁₆ClN₅**Molecular Weight**

301.8 g/mol

Purity

>98%

CAS

172889-27-9

Solubility

Soluble in DMSO at 25 mg/ml or ethanol at 3 mg/ml with slight warming.

Storage

Store lyophilized at -20°C, desiccated. In lyophilized form, the chemical is stable for 24 months. Once in solution, store at -20°C and use within 1 month to prevent loss of potency. *Aliquot to avoid multiple freeze/thaw cycles.*

Directions for Use

PP2 is supplied as a lyophilized powder. For a 15 mM stock, reconstitute 5 mg of powder in 1.1 ml of DMSO. Working concentrations and length of treatment can vary depending on the desired effect.

Background References

1. Hanke, J.H. et al. (1996) *J Biol Chem* 271, 695-701.
2. Sanna, P.P. et al. (2000) *Proc Natl Acad Sci U S A* 97, 8653-7.

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