# Data Sheet (Cat.No.T13824)

PP58

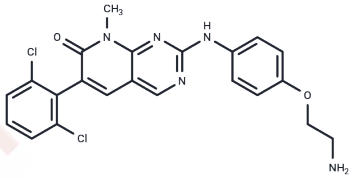
## Chemical Properties

CAS No. : 212391-58-7

Formula: C22H19Cl2N5O2

Molecular Weight: 456.32

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



## Biological Description

| | |
|---|---|
| Description | PP58 is an inhibitor of PDGFR, FGFR and Src family. |
| Targets(IC50) | FGFR,p38 MAPK,PDGFR,Src,TNF |
| In vitro | PP58 inhibits anisomycin-activated p38 in a dose-dependent manner with an IC50 < 10 nM. LPS-stimulated TNF-α production is potently inhibited by PP58 with a cellular IC50 value of 3 nM[1]. |
| In vivo | PP58 exhibits some degree of selectivity in vivo[1]. |

## Solubility Information

| | |
|---|---|
| Solubility | DMSO: 56.3 mg/mL (123.38 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 2.1914 mL | 10.9572 mL | 21.9144 mL |
| 5 mM | 0.4383 mL | 2.1914 mL | 4.3829 mL |
| 10 mM | 0.2191 mL | 1.0957 mL | 2.1914 mL |
| 50 mM | 0.0438 mL | 0.2191 mL | 0.4383 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Wissing J, et al. Chemical Proteomic Analysis Reveals Alternative Modes of Action for Pyrido[2,3-d]pyrimidine Kinase Inhibitors. Mol Cell Proteomics. 2004 Dec;3(12):1181-93.
Blencke S, et al. Characterization of a conserved structural determinant controlling protein kinase sensitivity to selective inhibitors. Chem Biol. 2004 May;11(5):691-701.