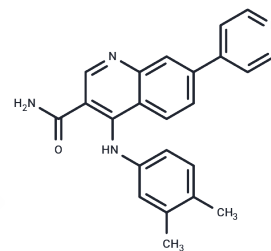


cFMS Receptor Inhibitor II

Chemical Properties

CAS No. :	959860-85-6
Formula:	C ₂₃ H ₂₀ N ₄ O
Molecular Weight:	368.43
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	cFMS Receptor Inhibitor II is a CSF1R kinase (FMS Receptor; colony stimulating factor 1 receptor; Macrophage colony-stimulating factor receptor) inhibitor with an IC ₅₀ of 2.8 nM, demonstrating significant selectivity over other kinases. This compound also exhibits notable CSF1R inhibition with an IC ₅₀ of 1.4 μM in cellular assays.
Targets(IC ₅₀)	c-Fms

Solubility Information

Solubility	DMSO: 83.33 mg/mL (226.18 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (8.96 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7142 mL	13.5711 mL	27.1422 mL
5 mM	0.5428 mL	2.7142 mL	5.4284 mL
10 mM	0.2714 mL	1.3571 mL	2.7142 mL
50 mM	0.0543 mL	0.2714 mL	0.5428 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

Buckles R E , Mock G V . THE PREPARATION OF TIGLIC AND ANGELIC ACIDS AND ESTERS\,r, 1]]. The Journal of Organic Chemistry, 1950, 15(3):680-684.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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