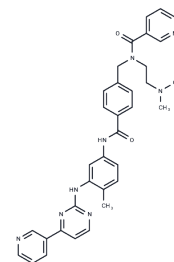


PDGFR α kinase inhibitor 1

Chemical Properties

CAS No. :	2209053-93-8
Formula:	C ₃₄ H ₃₄ N ₈ O ₂
Molecular Weight:	586.69
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	PDGFR α kinase inhibitor 1 is a highly selective inhibitor of type II PDGFR α kinase (PDGFR α and PDGFR β) with IC ₅₀ values of 132 nM and 6115 nM, respectively.
Targets(IC ₅₀)	PDGFR
In vitro	PDGFR α kinase inhibitor 1 (Compound 15i) exhibits weak inhibition against DDR1 kinase (IC ₅₀ : 2462 \pm 126 nM) [1].

Solubility Information

Solubility	DMSO: 200 mg/mL (340.9 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 (5.62 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	1.7045 mL	8.5224 mL	17.0448 mL
5 mM	0.3409 mL	1.7045 mL	3.409 mL
10 mM	0.1704 mL	0.8522 mL	1.7045 mL
50 mM	0.0341 mL	0.1704 mL	0.3409 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

Wang Q, et al. Discovery of 4-((N-(2-(dimethylamino)ethyl)acrylamido)methyl)-N-(4-methyl-3-((4-(pyridin-3-yl)pyrimidin-2-yl)amino)phenyl)benzamide (CHMFL-PDGFR-159) as a highly selective type II PDGFR α kinase inhibitor for PDGFR α driving chronic eosinophilic leukemia. *Eur J Med Chem.* 2018 Apr 25;150:366-384.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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