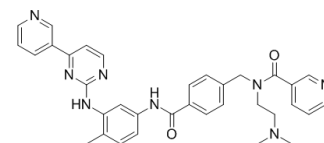


## PDGFR $\alpha$ kinase inhibitor 1

Cat. No.:	HY-111507		
CAS No.:	2209053-93-8		
Molecular Formula:	C <sub>34</sub> H <sub>34</sub> N <sub>8</sub> O <sub>2</sub>		
Molecular Weight:	586.69		
Target:	PDGFR		
Pathway:	Protein Tyrosine Kinase/RTK		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 260 mg/mL (443.16 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
	Preparing Stock Solutions	1 mM	1.7045 mL	8.5224 mL
		5 mM	1.7045 mL	3.4090 mL
		10 mM	0.1704 mL	0.8522 mL
	Please refer to the solubility information to select the appropriate solvent.			
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.17 mg/mL (3.70 mM); Clear solution			
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE- $\beta$ -CD in saline) Solubility: ≥ 2.17 mg/mL (3.70 mM); Clear solution			
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.17 mg/mL (3.70 mM); Clear solution			

### BIOLOGICAL ACTIVITY

Description	PDGFR $\alpha$ kinase inhibitor 1 is a highly selective type II PDGFR $\alpha$ kinase inhibitor with IC <sub>50</sub> s of 132 nM and 6115 nM for PDGFR $\alpha$ and PDGFR $\beta$ , respectively <sup>[1]</sup> .	
IC <sub>50</sub> & Target	PDGFR $\alpha$ 132 nM (IC <sub>50</sub> )	PDGFR $\beta$ 6115 nM (IC <sub>50</sub> )
In Vitro	PDGFR $\alpha$ kinase inhibitor 1 (CHMFL-PDGFR-159, Compound 15i) exhibits weak inhibition to DDR1 kinase (IC <sub>50</sub> : 2462±126 nM)	

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[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[1]. 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 $\alpha$  kinase inhibitor for PDGFR $\alpha$  driving chronic eosinophilic leukemia. *Eur J Med Chem.* 2018 Apr 25;150:366-384.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA