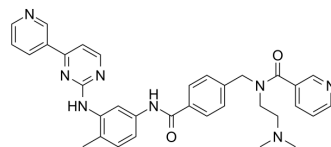


PDGFR α kinase inhibitor 1

Cat. No.:	HY-111507		
CAS No.:	2209053-93-8		
Molecular Formula:	C ₃₄ H ₃₄ N ₈ O ₂		
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	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 260 mg/mL (443.16 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	1.7045 mL	8.5224 mL	17.0448 mL
	5 mM	0.3409 mL	1.7045 mL	3.4090 mL
	10 mM	0.1704 mL	0.8522 mL	1.7045 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	<ol style="list-style-type: none"> 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 Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.17 mg/mL (3.70 mM); Clear solution 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 α kinase inhibitor 1 is a highly selective type II PDGFR α kinase inhibitor with IC ₅₀ s of 132 nM and 6115 nM for PDGFR α and PDGFR β , respectively ^[1] .	
IC₅₀ & Target	PDGFR α 132 nM (IC ₅₀)	PDGFR β 6115 nM (IC ₅₀)
In Vitro	PDGFR α kinase inhibitor 1 (CHMFL-PDGFR-159, Compound 15i) exhibits weak inhibition to DDR1 kinase (IC ₅₀ : 2462±126 nM)	

[1].

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

REFERENCES

[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 α kinase inhibitor for PDGFR α driving chronic eosinophi

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

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