Data Sheet (Cat.No.T9627)

TargetMol

PHD-1-IN-1

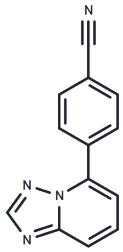
Chemical Properties

CAS No. : 2009343-14-8

Formula: C13H8N4

Molecular Weight: 220.23

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	PHD-1-IN-1 is a potent inhibitor of hypoxia-inducible factor prolylhydroxylase domain-1 (PHD-1) enzyme(IC50 = 0.034 μM).
Targets(IC50)	HIF/HIF Prolyl-Hydroxylase
In vivo	Administration of PHD-1-IN-1 (3 mg/kg of p.o. or 0.5 mg/kg of i.v.) has a Cmax of 0.8 μM, a AUC of 176 ng?h/mL, Kp,uu of 1.11 and B/P of 0.95[1].

Solubility Information

Solubility	DMSO: 11 mg/mL (49.95 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: 8 mg/mL (36.33 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.5407 mL	22.7035 mL	45.4071 mL
5 mM	0.9081 mL	4.5407 mL	9.0814 mL
10 mM	0.4541 mL	2.2704 mL	4.5407 mL
50 mM	0.0908 mL	0.4541 mL	0.9081 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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