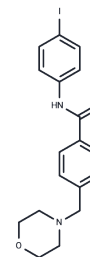


HIF-1 inhibitor-4

Chemical Properties

CAS No. : 333357-56-5
Formula: C₁₈H₁₉IN₂O₂
Molecular Weight: 422.26
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	HIF-1 inhibitor-4 (HIF-1 inhibitor-4) is a HIF-1 inhibitor with IC ₅₀ of 560 nM. HIF-1 inhibitor-4 reduces the HIF-1 α protein level without affecting its mRNA level.
Targets(IC ₅₀)	HIF/HIF Prolyl-Hydroxylase,HIF
In vitro	HIF-1 inhibitor-4 (Compound 1) inhibits HIF-1 with an IC ₅₀ of 560 nM in U251 cells expressing the PLAP reporter gene under the control of the VEGF promoter (VEGF PLAP) [1].

Solubility Information

Solubility	DMSO: 9 mg/mL (21.31 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: 1 mg/mL (2.37 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	2.3682 mL	11.841 mL	23.6821 mL
5 mM	0.4736 mL	2.3682 mL	4.7364 mL
10 mM	0.2368 mL	1.1841 mL	2.3682 mL
50 mM	0.0474 mL	0.2368 mL	0.4736 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

Nagao S, et al. Synthesis and structure-activity relationships of novel, potent, orally active hypoxia-inducible factor-1 inhibitors. *Bioorg Med Chem*. 2014 Oct 1;22(19):5513-29.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481