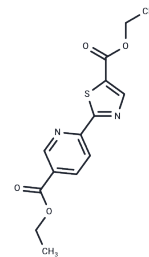


## Diethyl-pythiDC

## Chemical Properties

CAS No. :	1821370-70-0
Formula:	C <sub>14</sub> H <sub>14</sub> N <sub>2</sub> O <sub>4</sub> S
Molecular Weight:	306.34
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	Diethyl-pythiDC is an collagen prolyl 4-hydroxylase inhibitor.
Targets(IC50)	MMP,Hydroxylase
In vitro	In MDA-MB-231 cells, Diethyl-pythiDC inhibits CP4H activity in cultured cells at concentrations that do not cause iron deficiency. None of the esterified Diethyl-pythiDC exhibited cytotoxic activity at high micromolar concentrations. Cells treated with dihydroxybenzoate demonstrate a strong iron-deficient phenotype. In contrast, cells treated with Diethyl-pythiDC appear to be normal at concentrations as high as 500 μM. Treatment with Diethyl-pythiDC and low levels of diethyl pyimDC does not affect the level of TfR, HIF-1α, or ferritin[1].

## Solubility Information

Solubility	DMSO: 10 mg/mL (32.64 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 1 mg/mL (3.26 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

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	3.2643 mL	16.3217 mL	32.6435 mL
5 mM	0.6529 mL	3.2643 mL	6.5287 mL
10 mM	0.3264 mL	1.6322 mL	3.2643 mL
50 mM	0.0653 mL	0.3264 mL	0.6529 mL

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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

Vasta JD, et al. Selective Inhibition of Collagen Prolyl 4-Hydroxylase in Human Cells. ACS Chem Biol. 2016 Jan 15;11(1):193-9.

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