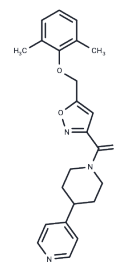


## Dafadine-A

## Chemical Properties

CAS No. :	1065506-69-5
Formula:	C <sub>23</sub> H <sub>25</sub> N <sub>3</sub> O <sub>3</sub>
Molecular Weight:	391.46
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	Dafadine-A is an analog of dafadine and a novel inhibitor of DAF-9 cytochrome P450 in the nematode <i>Caenorhabditis elegans</i> . Mammalian orthologs that also inhibit DAF-9 (CYP27A1).
Targets(IC50)	Cytochromes P450

## Solubility Information

Solubility	DMSO: 50 mg/mL (127.73 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: 2 mg/mL (5.11 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	2.5545 mL	12.7727 mL	25.5454 mL
5 mM	0.5109 mL	2.5545 mL	5.1091 mL
10 mM	0.2555 mL	1.2773 mL	2.5545 mL
50 mM	0.0511 mL	0.2555 mL	0.5109 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

Luciani GM, et al. Dafadine inhibits DAF-9 to promote dauer formation and longevity of *Caenorhabditis elegans*.  
Nat Chem Biol. 2011 Nov 6;7(12):891-3.

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