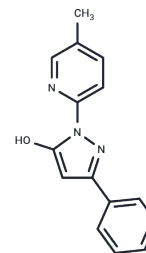


## COQ7-IN-2

## Chemical Properties

CAS No. :	2579696-76-5
Formula:	C <sub>15</sub> H <sub>13</sub> N <sub>3</sub> O
Molecular Weight:	251.28
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	COQ7-IN-2 is a small molecule human COQ7 inhibitor that interferes with UQ (ubiquinone, coenzyme Q) synthesis without interfering with physiological cell growth in normal human cultured cells, with IC <sub>50</sub> values of 7.3 μM and 15.4 μM for DMQ10 and UQ10 accumulation, respectively, and can be used as a potent tool to study the UQ complementation pathway.
Targets(IC <sub>50</sub> )	Others, Mitochondrial Metabolism
In vitro	COQ7-IN-2 has little inhibitory effect on the growth of normal human cultured cells. [1]

## Solubility Information

Solubility	DMSO: 20 mg/mL (79.59 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (7.96 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	3.9796 mL	19.8981 mL	39.7962 mL
5 mM	0.7959 mL	3.9796 mL	7.9592 mL
10 mM	0.398 mL	1.9898 mL	3.9796 mL
50 mM	0.0796 mL	0.398 mL	0.7959 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

Keiko Tsuganezawa, et al. Identification of small molecule inhibitors of human COQ7. Bioorg Med Chem. 2020 Jan 1;28(1):115182.

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