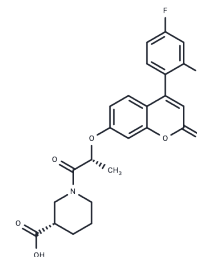


## IMT1B

## Chemical Properties

CAS No. :	2304621-06-3
Formula:	C <sub>24</sub> H <sub>21</sub> ClFNO <sub>6</sub>
Molecular Weight:	473.88
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



## Biological Description

Description	IMT1B (LDC203974) is an orally administered, specific noncompetitive allosteric inhibitor of mitochondrial RNA polymerase (POLRMT), effectively suppressing mitochondrial DNA (mtDNA) expression and conferring anti-tumor properties.
Targets(IC50)	DNA/RNA Synthesis

## Solubility Information

Solubility	DMSO: 16.9 mg/mL (35.66 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: 5 mg/mL (10.55 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	2.1102 mL	10.5512 mL	21.1024 mL
5 mM	0.422 mL	2.1102 mL	4.2205 mL
10 mM	0.211 mL	1.0551 mL	2.1102 mL
50 mM	0.0422 mL	0.211 mL	0.422 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

Nina A Bonekamp, et al. Small-molecule inhibitors of human mitochondrial DNA transcription. Nature. 2020 Dec; 588(7839):712-716.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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