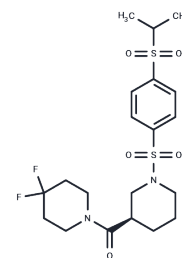


DX3-213B

## Chemical Properties

CAS No. :	2749555-66-4
Formula:	C <sub>20</sub> H <sub>28</sub> F <sub>2</sub> N <sub>2</sub> O <sub>5</sub> S <sub>2</sub>
Molecular Weight:	478.57
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	DX3-213B is a potent, orally active inhibitor of oxidative phosphorylation (OXPHOS) complex I with an IC <sub>50</sub> of 3.6 nM. DX3-213B blocks ATP production (IC <sub>50</sub> : 11 nM) and inhibits the growth of MIA PaCa-2 cells (GI <sub>50</sub> : 11 nM). DX3-213B can be used to study pancreatic cancer.
Targets(IC <sub>50</sub> )	OXPHOS, Mitochondrial Metabolism

## Solubility Information

Solubility	DMSO: 112.5 mg/mL (235.08 mM), Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (8.36 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	2.0896 mL	10.4478 mL	20.8956 mL
5 mM	0.4179 mL	2.0896 mL	4.1791 mL
10 mM	0.209 mL	1.0448 mL	2.0896 mL
50 mM	0.0418 mL	0.209 mL	0.4179 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

Xue D, et al. Multiparameter Optimization of Oxidative Phosphorylation Inhibitors for the Treatment of Pancreatic Cancer. J Med Chem. 2022;65(4):3404-3419.

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