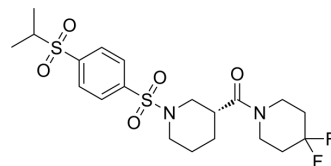


DX3-213B

Cat. No.:	HY-144310		
CAS No.:	2749555-66-4		
Molecular Formula:	C ₂₀ H ₂₈ F ₂ N ₂ O ₅ S ₂		
Molecular Weight:	478.57		
Target:	Mitochondrial Metabolism; Oxidative Phosphorylation		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (261.19 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.0896 mL	10.4478 mL	20.8956 mL
	5 mM	0.4179 mL	2.0896 mL	4.1791 mL
	10 mM	0.2090 mL	1.0448 mL	2.0896 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (4.35 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (4.35 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (4.35 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

DX3-213B is a highly potent, orally active oxidative phosphorylation (OXPHOS) complex I inhibitor (IC₅₀=3.6 nM). DX3-213B impairs ATP generation (IC₅₀=11 nM), and blocks MIA PaCa-2 cell growth (GI₅₀=11 nM). DX3-213B is used for the research of the pancreatic cancer^[1].

REFERENCES

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA