RedChemExpress

Gboxin

Cat. No.:	HY-111651	
CAS No.:	2101315-36-8	
Molecular Formula:	C ₂₂ H ₃₃ ClN ₂ O ₂	
Molecular Weight:	392.96	
Target:	ATP Synthase; Mitochondrial Metabolism; Oxidative Phosphorylation	
Pathway:	Membrane Transporter/Ion Channel; Metabolic Enzyme/Protease	
Storage:	-20°C, sealed storage, away from moisture	
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	



SOLVENT & SOLUBILITY

In Vitro	DMSO : 32.5 mg/mL (82.71 mM; Need ultrasonic) H ₂ O : 10 mg/mL (25.45 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		1 mM	2.5448 mL	12.7239 mL	25.4479 mL		
		5 mM	0.5090 mL	2.5448 mL	5.0896 mL		
		10 mM	0.2545 mL	1.2724 mL	2.5448 mL		
	Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.17 mg/mL (5.52 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.17 mg/mL (5.52 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.17 mg/mL (5.52 mM); Clear solution						
	4. Add each solvent one by one: PBS Solubility: 2 mg/mL (5.09 mM); Clear solution; Need ultrasonic						

BIOLOGICAL ACTIVI	ТҮ
Description	Gboxin syntha
IC ₅₀ & Target	F ₀ F ₁ AT
In Vitro	Gboxin

Inhibitors • Screening Libraries

Proteins

of cycling primary low-passage mouse embryonic fibroblasts (MEFs) or astrocytes ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay ^[1]			
Cell Line:	HTS cells, MEFs and astrocytes		
Concentration:	0, 185, 555, 1667, 5000, 15000 nM		
Incubation Time:	96 hours		
Result:	Inhibited the growth of HTS cells (IC $_{50}$ =150 nM).		

CUSTOMER VALIDATION

• Nat Commun. 2023 Jul 28;14(1):4557.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Shi Y, et al. Gboxin is an oxidative phosphorylation inhibitor that targets glioblastoma. Nature. 2019 Mar;567(7748):341-346.

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