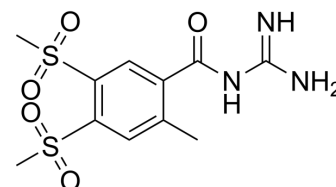


Rimeporide

Cat. No.:	HY-19273		
CAS No.:	187870-78-6		
Molecular Formula:	C ₁₁ H ₁₅ N ₃ O ₅ S ₂		
Molecular Weight:	333.38		
Target:	Na ⁺ /H ⁺ Exchanger (NHE)		
Pathway:	Membrane Transporter/Ion Channel		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 20 mg/mL (59.99 mM; Need ultrasonic and warming)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			1 mM	2.9996 mL	14.9979 mL	29.9958 mL
			5 mM	0.5999 mL	2.9996 mL	5.9992 mL
			10 mM	0.3000 mL	1.4998 mL	2.9996 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: ≥ 2.08 mg/mL (6.24 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (6.24 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (6.24 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Rimeporide (EMD-87580) is a potent and selective inhibitor of the Na ⁺ /H ⁺ exchanger (NHE-1).
IC ₅₀ & Target	NHE1 ^[1]
In Vitro	Blocking NHE-1 activity has been shown to decrease intracellular Na ⁺ and Ca ²⁺ overload and pH and Rimeporide (EMD-87580) represents a new therapeutic option for duchenne muscular dystrophy (DMD). Rimeporide (EMD-87580) is expected to act as a muscle-sparing agent and its mode of action means that it is mutation independent ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. F.Porte-Thomé, et al. Development of Rimeporide, a sodium-hydrogen exchanger (NHE-1) inhibitor, for patients with Duchenne muscular dystrophy. Neuromuscular Disorders. October 2015 Oct 25:259-260.

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

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