Raxatrigine hydrochloride

Cat. No.:	HY-12796A		
CAS No.:	934240-31-0		
Molecular Formula:	C ₁₈ H ₂₀ ClFN ₂ O ₂		NH ₂
Molecular Weight:	350.82		N O
Target:	Sodium Channel		
Pathway:	Membrane Transporter/Ion Channel	F	H-CI
Storage:	4°C, sealed storage, away from moisture		
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)		

SOLVENT & SOLUBILITY

	H ₂ O : 14.29 mg/mL (40	DMSO : ≥ 31 mg/mL (88.36 mM) H ₂ O : 14.29 mg/mL (40.73 mM; Need ultrasonic) * "≥" means soluble, but saturation unknown.					
		Mass Solvent Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	2.8505 mL	14.2523 mL	28.5046 mL		
		5 mM	0.5701 mL	2.8505 mL	5.7009 mL		
		10 mM	0.2850 mL	1.4252 mL	2.8505 mL		
	Please refer to the solu	bility information to select the app	propriate solvent.				
In Vivo		1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (7.13 mM); Clear solution					
		2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.13 mM); Clear solution					
		3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.13 mM); Clear solution					

BIOLOGICAL ACTIVITY			
Description	Raxatrigine hydrochloride (GSK-1014802 hydrochloride) is a novel small molecule state-dependent sodium channel blocker; Nav1.7 sodium channel inhibitor.		
IC ₅₀ & Target	Nav1.7		
In Vitro	Like lamotrigine, both GSK2 and GSK3 were able to prevent the deficit in reversal learning produced by PCP, thus confirming their potential in the treatment of cognitive symptoms of schizophrenia. However, higher doses than those required for		



Product Data Sheet

anticonvulsant efficacy of the drugs were needed for activity in the reversal-learning model, suggesting a lower therapeutic window relative to mechanism-dependent central side effects for this indication. Raxatrigine (GSK-1014802) received orphan-drug designation from the US Food and Drug Administration in July 2013.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Large CH, et al. The efficacy of sodium channel blockers to prevent phencyclidine-induced cognitive dysfunction in the rat: potential for novel treatments for schizophrenia. J Pharmacol Exp Ther. 2011 Jul;338(1):100-13.

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

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