Relutrigine

Cat. No.:	HY-148792			
CAS No.:	2392951-29-8			
Molecular Formula:	$C_{15}H_{11}F_{6}N_{5}O_{2}$			
Molecular Weight:	407.27			
Target:	Sodium Cha	annel		
Pathway:	Membrane Transporter/Ion Channel			
Storage:	Powder	-20°C	3 years	
		4°C	2 years	
	In solvent	-80°C	6 months	
		-20°C	1 month	

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SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (245.54 mM; Need ultrasonic)				
		Solvent Mass Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.4554 mL	12.2769 mL	24.5537 mL
		5 mM	0.4911 mL	2.4554 mL	4.9107 mL
		10 mM	0.2455 mL	1.2277 mL	2.4554 mL
	Please refer to the so	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: 2.5 mg/mL (6.14 mM); Clear solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (6.14 mM); Clear solution; Need ultrasonic 				

Description Relutrigine (PRAX-562) is an orally active inhibitor of persistent sodium channel. Relutrigine potently and preferentially	
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inhibits persistent I _{Na} induced by ATX-II (Nav 1.5 activator) or the SCN8A mutation N1768D with IC ₅₀ values of 141 nM and nM, respectively. Relutrigine exhibits potent use-dependent block and reduces neuronal intrinsic excitability. Relutrigine effective anticonvulsant activity ^[1] .	nd 75 ne has
In Vitro Relutrigine (0.001-10000 μM) has a stronger inhibitory effect on hNaV1.6 sustained sodium channel (I _{Na}) when compared with targeted antiepileptic drugs Carbamazepine (HY-B0246) and Lamotrigine (HY-B0495). Relutrigine shows preference persistent I _{Na} . Relutrigine (0.3 μM) significantly reduces the intrinsic excitability of wild-type CA1 pyramidal neurons ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	e for

Product Data Sheet

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d tonic hindlimb	In Vivo Relutrigine (0.3-40 mg seizures, and reduces MCE has not independ
	Animal Model:
	Dosage:
	Administration:
	Result:
	Animal Model: Dosage: Administration: Result:

REFERENCES

[1]. Kahlig KM, et al. The novel persistent sodium current inhibitor PRAX-562 has potent anticonvulsant activity with improved protective index relative to standard of care sodium channel blockers. Epilepsia. 2022 Mar;63(3):697-708.

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

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