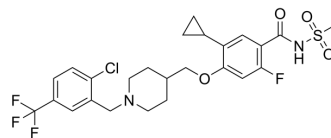


GX-201

Cat. No.:	HY-131870		
CAS No.:	1788071-27-1		
Molecular Formula:	C ₂₅ H ₂₇ ClF ₄ N ₂ O ₄ S		
Molecular Weight:	563		
Target:	Sodium Channel		
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



SOLVENT & SOLUBILITY

In Vitro	DMSO : 62.5 mg/mL (111.01 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	1.7762 mL	8.8810 mL	17.7620 mL
	5 mM	0.3552 mL	1.7762 mL	3.5524 mL
	10 mM	0.1776 mL	0.8881 mL	1.7762 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 (3.69 mM); Clear solution			

BIOLOGICAL ACTIVITY

Description	GX-201 is a selective Na _v 1.7 inhibitor, with an IC ₅₀ of <3.2 nM for hNa _v 1.7 ^[1] .
IC₅₀ & Target	Na _v 1.7 <3.2 nM (IC ₅₀)
In Vivo	GX-201 has a relatively long half-life in mice ^[1] . GX-201 produces analgesia at a free plasma concentration about 3 times the IC ₅₀ for high-affinity channel block ^[1] . GX-201 inhibits nociceptive responses induced by formalin and inflammatory pain caused by complete Freund's adjuvant (CFA) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Wild-Type Mice ^[1] .
Dosage:	0.3, 1, 3 mg/kg.
Administration:	Orally, once.
Result:	Produced a dose-dependent inhibition of the nociceptive events.

REFERENCES

[1]. Girish Bankar, et al. Selective Na V 1.7 Antagonists with Long Residence Time Show Improved Efficacy against Inflammatory and Neuropathic Pain. Cell Rep. 2018 Sep 18;24(12):3133-3145.

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

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