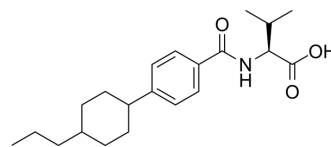


GNE-0439

Cat. No.:	HY-123824
CAS No.:	1241902-40-8
Molecular Formula:	C ₂₁ H ₃₁ NO ₃
Molecular Weight:	345.48
Target:	Sodium Channel
Pathway:	Membrane Transporter/Ion Channel
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

In Vitro	DMSO : 130 mg/mL (376.29 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.8945 mL	14.4726 mL	28.9452 mL
		5 mM	0.5789 mL	2.8945 mL	5.7890 mL
		10 mM	0.2895 mL	1.4473 mL	2.8945 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: ≥ 3.25 mg/mL (9.41 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 3.25 mg/mL (9.41 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 3.25 mg/mL (9.41 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	GNE-0439 is a novel Nav1.7-selective inhibitor with IC ₅₀ of 0.34 μM and inhibits Nav1.5 with an IC ₅₀ of 38.3 μM. GNE-0439 inhibits mutant N1742K channels (IC ₅₀ =0.37 μM) in membrane potential assays. GNE-0439 possesses a carboxylic acid group, binds outside of the channel pore, and is unique compared with known selective VSD4 binders ^[1] .
IC₅₀ & Target	IC ₅₀ : 0.34 μM (Nav1.7) ^[1]

REFERENCES

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA