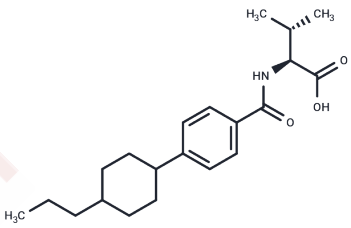
Data Sheet (Cat.No.T11437)

GNE-0439

Chemical Properties



CAS No. : 1241902-40-8

Formula: C21H31NO3

Molecular Weight: 345.48

Storage: Store at low temperature,Keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	GNE-0439 is a novel, Nav1.7-selective inhibitor with an IC50 of 0.34 uM that also inhibits Nav1.5 (IC50=38.3 uM) and mutant N1742K channels (IC50=0.37 uM), possessing a carboxylic acid group that binds outside the channel pore, distinguishing it from known selective VSD4 binders and making it a valuable tool for ion channel research.
Targets(IC50)	Sodium Channel

Solubility Information

Solubility	DMSO: 105 mg/mL (303.92 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 4 mg/mL (11.58 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8945 mL	14.4726 mL	28.9452 mL
5 mM	0.5789 mL	2.8945 mL	5.789 mL
10 mM	0.2895 mL	1.4473 mL	2.8945 mL
50 mM	0.0579 mL	0.2895 mL	0.5789 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Chernov-Rogan T, et al. Mechanism-specific assay design facilitates the discovery of Nav1.7-selective inhibitors. Proc Natl Acad Sci U S A. 2018 Jan 23;115(4):E792-E801.