NaV1.7 inhibitor-1

Cat. No.: HY-119934

CAS No.: 1494585-79-3

Molecular Formula: $C_{23}H_{30}FNO_4S$

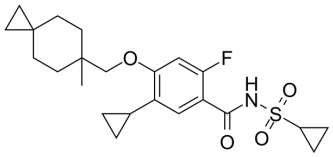
Molecular Weight: 435.55

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 : 100 mg/mL (229.59 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.2959 mL	11.4797 mL	22.9595 mL
5 mM	0.4592 mL	2.2959 mL	4.5919 mL
10 mM	0.2296 mL	1.1480 mL	2.2959 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (5.74 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.74 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

NaV1.7 inhibitor-1 is an efficacious voltage-gated sodium channel (NaV) 1.7 inhibitor with an IC_{50} of 0.6 nM for hNaV1.7, exhibits 80-fold selectivity versus hNaV1.5[1].

IC_{50} & Target

h $Na_V1.7$
0.6 nM (IC_{50})

REFERENCES

[1]. Sun S, Identification of Selective Acyl Sulfonamide-Cycloalkylether Inhibitors of the Voltage-GatedSodium Channel (NaV) 1.7 with Potent Analgesic Activity. J Med Chem. 2019 Jan 24;62(2):908-927.

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

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