DSP-2230

Cat. No.: HY-125079

CAS No.: 1233231-30-5

Molecular Formula: $C_{20}H_{20}F_3N_5O_2$

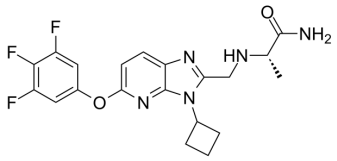
Molecular Weight: 419.4

Target: Sodium Channel

Pathway: Membrane Transporter/Ion Channel

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (298.04 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.3844 mL	11.9218 mL	23.8436 mL
	5 mM	0.4769 mL	2.3844 mL	4.7687 mL
	10 mM	0.2384 mL	1.1922 mL	2.3844 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: ≥ 2.25 mg/mL (5.36 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.25 mg/mL (5.36 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.25 mg/mL (5.36 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

DSP-2230 is a selective Nav1.7/Nav1.8 blocker[1][2].

IC_{50} & Target

Nav1.7/Nav1.8[1]

REFERENCES

[1]. Bagal SK, et al. Voltage gated sodium channels as drug discovery targets. Channels (Austin). 2015;9(6):360-6.

[2]. Sara Sabina Hadida-Ruah, et al. Sulfonamides as modulators of sodium channels.

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