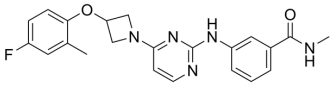
Nav1.7-IN-2

Cat. No.:	HY-19366
CAS No.:	1332295-35-8
Molecular Formula:	$C_{22}H_{22}FN_5O_2$
Molecular Weight:	407.44
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 : 50 mg/mL (122.72 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.4543 mL	12.2717 mL	24.5435 mL
5 mM	0.4909 mL	2.4543 mL	4.9087 mL
10 mM	0.2454 mL	1.2272 mL	2.4543 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: ≥ 2.5 mg/mL (6.14 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (6.14 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Nav1.7-IN-2 is an inhibitor of voltage-gated sodium channels (Nav), in particular Nav 1.7, with IC50 of 80 nM.IC50 value: 80 nMTarget: Nav 1.7Nav1.7-IN-2 is useful for the treatment of diseases treatable by inhibition of these channels, in particular, chronic pain disorder. The more detailed information please refer to WO 2011103196 A1. Nav1.7-IN-2 is a Nav1.7 channel inhibitor extracted from patent WO/2011103196 A1, compound example J, has an IC50 of 80 nM.

IC_{50} & Target

$Na_V1.7$
80 nM (IC_{50})

REFERENCES

[1]. Bregman Howard, et al. Preparation of aryl carboxamide derivatives as sodium channel inhibitors for treatment of pain. From PCT Int. Appl. (2011), WO 2011103196 A1 20110825.

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