Sodium Channel inhibitor 1

Cat. No.: HY-15736

CAS No.: 1198117-23-5

Molecular Formula: $C_{24}H_{19}F_4N_3O_3$

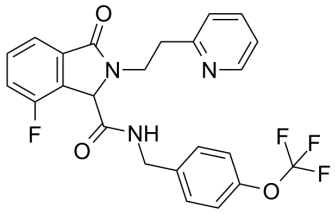
Molecular Weight: 473.42

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 : 100 mg/mL (211.23 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.1123 mL	10.5614 mL	21.1229 mL
	5 mM	0.4225 mL	2.1123 mL	4.2246 mL
	10 mM	0.2112 mL	1.0561 mL	2.1123 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.28 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Sodium Channel inhibitor1, one of 3-Oxoisoindoline-1-carboxamides, is a novel and selective voltage-gated sodium channel for pain treatment. IC50 Value: 0.16 uM (Na v1.7, V hold-90mV); 0.41 uM (Na v1.7, V hold-90mV) [1]Target: Na v1.7Sodium Channel inhibitor1 demonstrated concentration-dependent efficacy in preclinical behavioral pain models.

REFERENCES

[1]. Macsari I, et al. 3-Oxoisoindoline-1-carboxamides: potent, state-dependent blockers of voltage-gated sodium channel Na(V)1.7with efficacy in rat pain models. J Med Chem. 2012 Aug 9;55(15):6866-80.

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

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