Product Data Sheet



Cat. No.: HY-131879 CAS No.: 309711-59-9 Molecular Formula: $C_{19}H_{19}N_3O_2$ Molecular Weight: 321.37

Sodium Channel Target:

Pathway: Membrane Transporter/Ion Channel

Storage: Powder

2 years

3 years

-80°C In solvent 6 months

-20°C

-20°C 1 month

SOLVENT & SOLUBILITY

In Vitro

DMSO: 100 mg/mL (311.17 mM; ultrasonic and warming and heat to 80°C)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	3.1117 mL	15.5584 mL	31.1168 mL
	5 mM	0.6223 mL	3.1117 mL	6.2234 mL
	10 mM	0.3112 mL	1.5558 mL	3.1117 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 (7.78 mM); Clear solution; Need ultrasonic
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (7.78 mM); Clear solution; Need ultrasonic
- 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (7.78 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

NS383 is a potent and uniquely selective inhibitor of rat ASICs containing 1a and/or 3 subunits. NS383 inhibits H(+)-activated currents recorded from rat homomeric ASIC1a, ASIC3, and heteromeric ASIC1a+3 with IC $_{50}$ values ranging from 0.61 to 2.2 μ M. NS383 is well tolerated and capable of reversing pathological painlike behaviors, presumably via peripheral actions, but possibly also via actions within central pain circuits^[1].

REFERENCES

1]. Munro G, et al. NS383 Sele Neurosci Ther. 2016;22(2):135		lon Channels Containing 1a and 3	3 Subunits to Reverse Inflammatory and Neuropa	thic Hyperalgesia in Rats. CNS
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