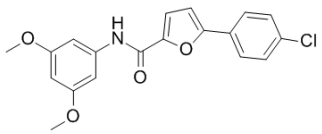
A-803467

Cat. No.:	HY-11079
CAS No.:	944261-79-4
Molecular Formula:	$C_{19}H_{16}ClNO_4$
Molecular Weight:	357.79
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 : 50 mg/mL (139.75 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.7949 mL	13.9747 mL	27.9494 mL
	5 mM	0.5590 mL	2.7949 mL	5.5899 mL
	10 mM	0.2795 mL	1.3975 mL	2.7949 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 (6.99 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (6.99 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

A 803467 is a selective Nav1.8 sodium channel blocker with an IC50 of 8 nM; over 100-fold more selective vs. human Nav1.2, 1.3, 1.5 and 1.7. IC50 value: 8 nMTarget: Nav1.8 sodium channelA 803467 dose-dependently reduces behavioral responses in a variety of neuropathic and inflammatory pain models.

CUSTOMER VALIDATION

- Front Pharmacol. 2020 Jul 31;11:1163.

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REFERENCES

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[2]. Jarvis MF, et al. A-803467, a potent and selective Nav1.8 sodium channel blocker, attenuates neuropathic and inflammatory pain in the rat. Proc Natl Acad Sci U S A. 2007 May 15;104(20):8520-5.

[3]. Joshi SK, et al. Additive antinociceptive effects of the selective Nav1.8 blocker A-803467 and selective TRPV1 antagonists in rat inflammatory and neuropathic pain models. http://www.ncbi.nlm.nih.gov/pubmed/19070548

[4]. Kort ME, et al. Subtype-selective Na(v)1.8 sodium channel blockers: identification of potent, orally active nicotinamide derivatives. Bioorg Med Chem Lett. 2010 Nov 15;20(22):6812-5.

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