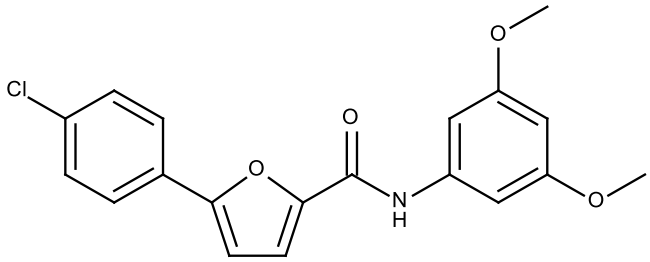
Catalog # 10-1066

A-803467

CAS# 944261-79-4

5-(4-Chlorophenyl)-N-(3,5-dimethoxyphenyl)furan-2-carboxamide

Lot # X101023



Potent, selective inhibitor of the TTX-resistant voltage-gated sodium channel Nav1.8. Nav1.8 is preferentially expressed in sensory neurons, and inhibition attenuates both inflammatory and neuropathic pain in a variety of animal models. IC_{50}s for rat and human Nav1.8 are 140 nM and 8.0 nM respectively.

1) Jarvis *et al*. (2007), *A-803467, a potent and selective Nav1.8 sodium channel blocker, attenuates neuropathic and inflammatory pain in the rat;* Proc. Natl. Acad. Sci. USA, **104** 8520
2) McGaraughty *et al*. (2008), *A selective Nav1.8 sodium channel blocker, A-803467 [5-(4-chlorophenyl-N-(3,5-dimethoxyphenyl)furan-2-carboxamide], attenuates spinal neuronal activity in neuropathic rats;* J. Pharmacol. Exp. Ther., **324** 1204

PHYSICAL DATA

Molecular Weight:	357.79
Molecular Formula:	$C_{19}H_{16}ClNO_4$
Purity:	98% by TLC [50% Ethyl acetate/hexanes, R_f = 0.58]
	NMR: (Conforms)
Solubility:	DMSO (up to 15 mg/mg), ethanol (up to 2 mg/ml)
Physical Description:	White solid (M.P. = 128-130°C)
Storage and Stability:	Store as supplied at room temperature for up to 1 year from the date of purchase.
	Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

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