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DATASHEET

A 803467

Product overview

Name	A 803467
Cat No	HB1007
Biological action	Inhibitor
Purity	>98%
Description	Potent, selective Nav1.8 channel inhibitor

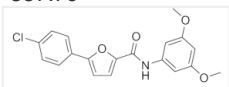
Biological Data

Biological description	Potent and selective voltage-dependent Nav1.8 channel inhibitor ($IC_{50} = 8$ nM). Shows >100-fold selectivity over Nav1.3, Nav1.7, Nav1.5 and Nav1.2 channels. Blocks tetrodotoxin resistant currents ($IC_{50} = 140$ nM). Shows antinociceptive actions.
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Solubility & Handling

Storage instructions	+4 °C
Solubility overview	Soluble in DMSO (100mM) or ethanol (25mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	5-(4-Chlorophenyl)-N-(3,5-dimethoxyphenyl)-2-furancarboxamide
Molecular Weight	357.79
Chemical structure	
Molecular Formula	C ₁₉ H ₁₆ ClNO ₄
CAS Number	944261-79-4
PubChem identifier	16038374
SMILES	<chem>C1C(C=C2)C=CC2C1=CC=C(C(NC3=CC(OC)=CC(OC)=C3)=O)O1</chem>
InChiKey	VHKBTPQDHDSBSP-UHFFFAOYSA-N

References

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.

McGaraughty S *et al* (2008) J Pharmacol Exp Ther 324(3)

PubMedID [18089840](#)

A-803467, a potent and selective Nav1.8 sodium channel blocker, attenuates neuropathic and inflammatory pain in the rat.

Jarvis MF *et al* (2007) Proc Natl Acad Sci U S A 104(20)

PubMedID [17483457](#)

Tetrodotoxin-resistant sodium channels in sensory neurons generate slow resurgent currents that are enhanced by inflammatory mediators.

Tan ZY *et al* (2014) J Neurosci 34(21)

PubMedID

24849353
