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Print Date: Dec 3rd 2018

Certificate of Analysis

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Product Name: **A 803467** **Catalog No.: 2976** **Batch No.: 3**

CAS Number: 944261-79-4

IUPAC Name: 5-(4-Chlorophenyl)-*N*-(3,5-dimethoxyphenyl)-2-furancarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{19}H_{16}ClNO_4$

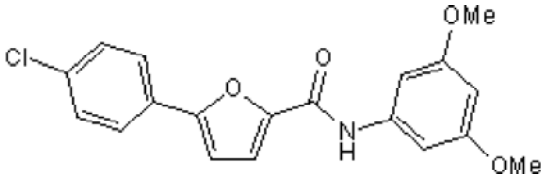
Batch Molecular Weight: 357.79

Physical Appearance: Beige solid

Solubility: DMSO to 100 mM
ethanol to 25 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.2% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.78	4.51	3.91
Found	63.61	4.51	4.16

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IUPAC Name: 5-(4-Chlorophenyl)-*N*-(3,5-dimethoxyphenyl)-2-furancarboxamide

Description:

Selective blocker of $Na_V1.8$ channels (IC_{50} values are 8, 2450, 6740, 7340 and 7380 nM for $hNa_V1.8$, $hNa_V1.3$, $hNa_V1.7$, $hNa_V1.5$ and $hNa_V1.2$ channels respectively). Shows no significant activity against TRPV1, $P2X_{2/3}$, $Ca_V2.2$ and KCNQ2/3 channels. Antinociceptive; potently attenuates mechanical allodynia in two models of neuropathic pain following i.p. administration.

Physical and Chemical Properties:

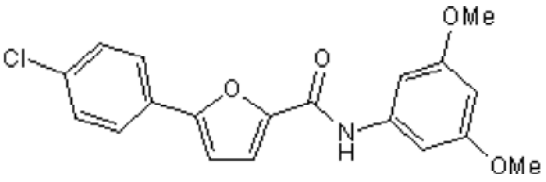
Batch Molecular Formula: $C_{19}H_{16}ClNO_4$

Batch Molecular Weight: 357.79

Physical Appearance: Beige solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 25 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Kort *et al* (2008) Discovery and biological evaluation of 5-Aryl-2-furfuramides, potent and selective blockers of the $Na_v1.8$ sodium channel with efficacy in models of neuropathic and inflammatory pain. J.Med.Chem. ***51*** 407. PMID: 18176998.

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. PMID: 18089840.

Jarvis *et al* (2007) A-803467, a potent and selective $Na_V1.8$ sodium channel blocker, attenuates neuropathic and inflammatory pain in the rat. Proc.Natl.Acad.Sci. ***104*** 8520.

Rush and Cummins (2007) Painful research: identification of a small-molecule inhibitor that selectively targets $Na_V1.8$ sodium channels. Mol.Interv. ***7*** 192. PMID: 17827438.