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# DATASHEET

A 803467

## Product overview

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|---|---|
| **Name** | A 803467 |
| **Cat No** | HB1007 |
| **Biological action** | Inhibitor |
| **Purity** | >98% |
| **Description** | Potent, selective $Na_v1.8$ channel inhibitor |

## Biological Data

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| **Biological description** | Potent and selective voltage-dependent $Na_v1.8$ channel inhibitor ($IC_{50}$ = 8 nM). Shows >100-fold selectivity over $Na_v1.3$, $Na_v1.7$, $Na_v1.5$ and $Na_v1.2$ channels. Blocks tetrodotoxin resistant currents ($IC_{50}$ = 140 nM). Shows antinociceptive actions. |

## Solubility & Handling

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| **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

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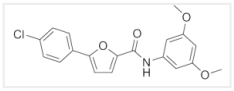
| **Chemical name** | 5-(4-Chlorophenyl)-*N*-(3,5-dimethoxyphenyl)-2-furancarboxamide |
| **Molecular Weight** | 357.79 |
| **Chemical structure** |  |
| **Molecular Formula** | $C_{19}H_{16}ClNO_4$ |
| **CAS Number** | 944261-79-4 |
| **PubChem identifier** | 16038374 |
| **SMILES** | ClC(C=C2)=CC=C2C1=CC=C(C(NC3=CC(OC)=CC(OC)=C3)=O)O1 |
| **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