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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Pridopidine

Neuroprotective
Catalog No. SIH-626



Discovery through Partnership | Excellence through Quality

Product Name

Pridopidine

Description

Neuroprotective

Purity

>98% (TLC); NMR (Conforms)

CAS No.

346688-38-8

Molecular Formula

$C_{15}H_{23}NO_2S$

Molecular Weight

281.4

Field Of Use

Not for use in humans. Not for use in diagnostics or therapeutics. For in vitro research use only.

Properties

Storage Temperature

-20°C

Shipping Temperature

Shipped Ambient

Product Type

Inhibitor

Solubility

May be dissolved in DMSO (10 mg/ml)

Source

Synthetic

Appearance

White powder

SMILES

CCCN1CCC(C2=CC(S(C)=O)=O)=CC=C2)CC1

InChI

1S/C15H23NO2S/c1-3-9-16-10-7-13(8-11-16)14-5-4-6-15(12-14)19(2,17)18/h4-6,12-13H,3,7-11H2,1-2H3

InChIKey

YGKUEOZJFIXDGI-UHFFFAOYSA-N

Safety Phrases

Classification: Warning

GHS Hazard Statements,: H302, H361d

Precautionary Statement Codes,: P203, P264, P270, P280, P301+P317, P318, P330, P405, and P501

Cite This Product

Pridopidine (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-626)

Biological Description

Alternative Names

4-(3-(Methylsulfonyl)phenyl)-1-propylpiperidine; ACR16

Research Areas

ALS Disease, Neurodegeneration, Neuroscience

PubChem ID

9795739

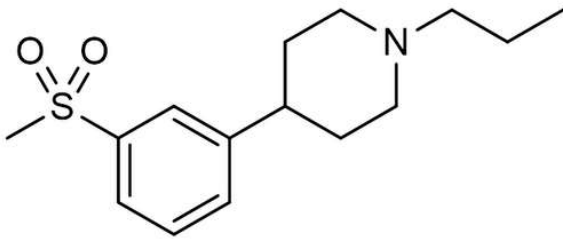
Scientific Background

Potential treatment for Huntington's disease, Parkinson's disease, and schizophrenia (1,2). Able to reverse both hypo- and hyperdopaminergia depending on local dopamine concentrations without inducing catalepsy. This was originally attributed to functional dopamine D2 antagonism with fast on/off kinetics ("dopamine stabilizer") (3). More recent studies have attributed pridopidine's effects to its being a more potent sigma-1 ligand than a D2 ligand (4,5). Displays neuroprotective/restorative effects (6,7) and ameliorates central features of amyotrophic lateral sclerosis pathology (8) in a sigma-1-mediated manner.

References

1. F Pettersson et al. 2010 J. Med. Chem. 53:2510.
2. S Natesan et al. 2006 J. Pharmacol. Exp. Ther. 318:810.
3. T Dyhring et al. 2010 Eur. J. Pharmacol. 628:19.
4. K Sahlholm et al. 2015 Psychopharmacology (Berl) 232:3443.
5. K Sahlholm et al. 2013 Mol. Psychiatry 18:12.
6. V Francardo et al. 2019 Neurotherapeutics 16:465.
7. D Ryskamp et al. 2017 Neurobiol. Dis. 7 97(Pt A):46.
8. A Ionescu et al. 2019 Cell Death Dis. 10:210.

Product Images



Chemical structure of Pridopidine (SIH-626), a Neuroprotective. CAS #: 346688-38-8. Molecular Formula: C₁₅H₂₃NO₂S. Molecular Weight: 281.4 g/mol.

Product Citations

Reviews

There are no reviews yet.