



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# Safinamide

MAO-B Inhibitor  
Catalog No. SIH-625



Discovery through Partnership | Excellence through Quality

## Product Name

Safinamide

## Description

MAO-B Inhibitor

## Purity

>98% (HPLC); NMR (conforms)

## CAS No.

133865-89-1

## Molecular Formula

$C_{17}H_{19}FN_2O_2$

## Molecular Weight

302.3

## Field Of Use

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

## Properties

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### Storage Temperature

-20°C

### Shipping Temperature

Shipped Ambient

### Product Type

Inhibitor

### Solubility

May be dissolved in DMSO (50 mg/ml)

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**Source**

Synthetic

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**Appearance**

White powder

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**SMILES**

CC(C(=O)N)NCC1=CC=C(C=C1)OCC2=CC(=CC=C2)F

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**InChI**

InChI=1S/C17H19FN2O2/c1-12(17(19)21)20-10-13-5-7-16(8-6-13)22-11-14-3-2-4-15(18)9-14/h2-9,12,20H,10-11H2,1H3,(H2,19,21)/t12-/m0/s1

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**InChIKey**

NEMGRZF7LSKBAP-LBPRGKRZSA-N

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**Safety Phrases**

Classification: Danger

GHS Hazard Statements,:

H301

H318

H400

Precautionary Statement Codes,

P264, P264+P265, P270, P273, P280, P301+P316, P305+P354+P338, P317, P321, P330, P391, P405, and P501

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**Cite This Product**

Safinamide (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-625)

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**Biological Description**

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**Alternative Names**

(S)-(+)-2-[[4-(3-Fluorobenzyloxy)benzyl]amino]propanamide; FCE-26743; PNU-151774E; NW-1015

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**Research Areas**

Neurodegeneration, Neuroscience, Parkinson's Disease

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**PubChem ID**

131682

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**Scientific Background**

A selective and reversible inhibitor of monoamine oxidase B (MAO-B, IC<sub>50</sub>=98 nM with greater than 100-fold selectivity over MAO-A) (1). It displays anticonvulsant activity (2) and protects against kainate-induced

seizures and hippocampal neurodegeneration in rat models (3). Reduces overactive glutamatergic signaling via use-dependent sodium channel blockade (4). A novel therapeutic for Parkinson's disease with multiple modes of action (5). Effective as an add-on to dopamine agonist therapy in early Parkinson's Disease(6).

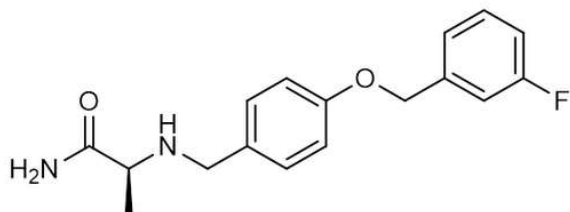
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## References

1. MS Strolin Benedetti et al. 1994 J. Pharm. Pharmacol. 46:814
2. RG Fariello et al. 1998 J. Pharmacol. Exp. Ther. 285:397
3. R Maj et al. 1998 Eur. J. Pharmacol. 8 359:27
4. F Gardoni et al. 2018 J. Pharmacol. Exp. Ther. 2018 367:442
5. C Caccia et al. 2006 Neurology 67(7 Suppl. 2):S18
6. AH Schapira et al. 2013 Eur. J. Neurol. 20:271

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## Product Images



Chemical structure of Safinamide (SIH-625), a MAO-B Inhibitor. CAS #: 133865-89-1. Molecular Formula: C<sub>17</sub>H<sub>19</sub>FN<sub>2</sub>O<sub>2</sub>. Molecular Weight: 302.3 g/mol.

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## Product Citations

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## Reviews

There are no reviews yet.