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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Safinamide (Standard)

Cat. No.: HY-70057R

CAS No.: 133865-89-1

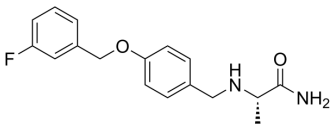
Molecular Formula: $C_{17}H_{19}FN_2O_2$

Molecular Weight: 302.34

Target: Monoamine Oxidase

Pathway: Neuronal Signaling

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Safinamide (Standard) is the analytical standard of Safinamide. This product is intended for research and analytical applications. Safinamide is a potent, selective, and reversible monoamine oxidase B (MAO-B) inhibitor (IC_{50}=0.098 μM) over MAO-A (IC_{50}=580 μM)[1]. Safinamide also blocks sodium channels and modulates glutamate (Glu) release, showing a greater affinity at depolarized (IC_{50}=8 μM) than at resting (IC_{50}=262 μM) potentials. Safinamide has neuroprotective and neurorescuing effects and can be used for the study of parkinson disease, ischemia stroke etc.al[2][3].
IC_{50} & Target	IC50: 98 nM (MAO-B)[1]

REFERENCES

[1]. Leonetti F, et al. Solid-phase synthesis and insights into structure-activity relationships of safinamide analogues as potent and selective inhibitors of type B monoamine oxidase. J Med Chem, 2007, 50(20), 4909-4916.

[2]. C Caccia, et al.Safinamide: from molecular targets to a new anti-Parkinson drug. Neurology. 2006 Oct 10;67(7 Suppl 2):S18-23.

[3]. Michele Morari, et al. Safinamide Differentially Modulates In Vivo Glutamate and GABA Release in the Rat Hippocampus and Basal Ganglia.J Pharmacol Exp Ther. 2018 Feb;364(2):198-206.

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