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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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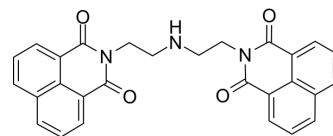
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M-31850

Cat. No.: HY-104050
CAS No.: 281224-40-6
Molecular Formula: C₂₈H₂₁N₃O₄
Molecular Weight: 463.48
Target: Others
Pathway: Others
Storage: 4°C, protect from light
 * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 5 mg/mL (10.79 mM; ultrasonic and adjust pH to 6 with HCl)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.1576 mL	10.7880 mL	21.5759 mL
	5 mM		0.4315 mL	2.1576 mL	4.3152 mL
	10 mM		0.2158 mL	1.0788 mL	2.1576 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

M-31850 is a potent, selective and competitive β -hexosaminidase (Hex) inhibitor with IC₅₀s of 6.0 μ M and 3.1 μ M for human HexA and human HexB, respectively. M-31850 also competitively inhibits β -N-acetyl-D-hexosaminidase OfHex2 with a K_i of 2.5 μ M^{[1][2]}.

IC₅₀ & Target

IC₅₀: 6.0 μ M (human HexA) and 3.1 μ M (human HexB)^[1].
 K_i: 2.5 μ M (OfHex2)^[2]

In Vitro

M-31850 shows some activity towards Jack Bean Hex (JBHex) and bacterial Hex from Streptomyces plicatus (SpHex) (IC₅₀ of 280 μ M and >500 μ M for JBHex and SpHex, respectively)^[1].
 ?M-31850 produces a dose dependent increase in MUG hydrolysis (Hex S levels) in lysates from treated infantile Sandhoff disease (ISD) cells^[1].
 ?M-31850 increases the half-life of the mutant Hex A from Adult forms of Tay-Sachs (ATSD) cells more than two-fold at 44° C, relative to the enzyme heated in the presence of DMSO. M-31850 acts as a classic competitive inhibitor of Hex (K_m increases and V_{max} is unaffected by increasing amounts of M-31850), with a K_i of 0.8 μ M^[1].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Michael B Tropak, et al. High-throughput screening for human lysosomal beta-N-Acetyl hexosaminidase inhibitors acting as pharmacological chaperones. Chem Biol. 2007 Feb;14(2):153-64.
- [2]. Qi Chen, et al. Exploring unsymmetrical dyads as efficient inhibitors against the insect β -N-acetyl-D-hexosaminidase OfHex2. Biochimie. 2014 Feb;97:152-62.
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Caution: Product has not been fully validated for medical applications. For research use only.

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