Rasagiline mesylate

Cat. No.:	HY-14605		
CAS No.:	161735-79-1	\sim	
Molecular Formula:	C ₁₃ H ₁₇ NO ₃ S	HN	
Molecular Weight:	267.34		0
Target:	Monoamine Oxidase; Autophagy; Apoptosis		О \`OH
Pathway:	Neuronal Signaling; Autophagy; Apoptosis		
Storage:	4°C, sealed storage, away from moisture		-
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)		

SOLVENT & SOLUBILITY

	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	3.7406 mL	18.7028 mL	37.4056 mL	
		5 mM	0.7481 mL	3.7406 mL	7.4811 mL	
		10 mM	0.3741 mL	1.8703 mL	3.7406 mL	
	Please refer to the solubility information to select the appropriate solvent.					
)	Please refer to the so		propriate solvent.		<u>.</u>	

BIOLOGICAL ACTIV		
Description	with IC ₅₀ s of 4.43?nM and 412	vlate is a highly potent selective irreversible mitochondrial monoamine oxidase (MAO) inhibitor 2?nM for rat brain MAO B and A activity, respectively ^[1] . Rasagiline (mesylate) is a click chemistry e group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAc) with molecules
IC ₅₀ & Target	rMAO-B 4.43 nM (IC ₅₀)	rMAO-A 412 nM (IC ₅₀)
In Vitro	(10 μ M) treatment ^[2] .) significantly increases the proliferation rates of SH-SY5Y and 1242-MG upon Dexamethasone confirmed the accuracy of these methods. They are for reference only.



	Cell Line:	Neuroblastoma SH-SY5Y, and glioblastoma 1242-MG
	Concentration:	0.25 nM
	Incubation Time:	96 hours
	Result:	Caused ~60% increase in the cell proliferation rate for SH-SY5Y cells treated with Dexamethasone. Caused ~35% increase in cell proliferation rate for 1242-MG cells treated with
		Dexamethasone.
n Vivo	improvements in motor	ective in a transgenic model of multiple system atrophy. Motor behavioural tests show r deficits associated with 2.5 mg/kg Rasagiline therapy ^[3] .
ı Vivo	improvements in motor MCE has not independe	deficits associated with 2.5 mg/kg Rasagiline therapy ^[3] . ntly confirmed the accuracy of these methods. They are for reference only.
ı Vivo	improvements in motor MCE has not independe Animal Model:	r deficits associated with 2.5 mg/kg Rasagiline therapy ^[3] . ntly confirmed the accuracy of these methods. They are for reference only. (PLP)-α-synuclein transgenic mice over 6 months of age ^[3]
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ı Vivo	improvements in motor MCE has not independe Animal Model: Dosage:	r deficits associated with 2.5 mg/kg Rasagiline therapy ^[3] . ntly confirmed the accuracy of these methods. They are for reference only. (PLP)-α-synuclein transgenic mice over 6 months of age ^[3] Low-(0.8 mg/kg b.w.) and high dose (2.5 mg/kg b. w.) Administered subcutaneously every 24 h for a total period of 4 weeks (from day 1 till day

CUSTOMER VALIDATION

- Eur J Med Chem. 2023 Apr 28;255:115417.
- Front Cell Neurosci. 2018 Sep 11;12:309.
- Bioorg Chem. 2023 Jun 3, 106654.
- Oncotarget. 2018 Jan 30;9(15):12137-12153.

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REFERENCES

[1]. M B Youdim, et al. Rasagiline [N-propargyl-1R(+)-aminoindan], a selective and potent inhibitor of mitochondrial monoamine oxidase B. Br J Pharmacol. 2001 Jan;132(2):500-6.

[2]. Nadia Stefanova, et al. Rasagiline is neuroprotective in a transgenic model of multiple system atrophy. Exp Neurol. 2008 Apr;210(2):421-7.

[3]. Shawna Tazik, et al. Comparative neuroprotective effects of Rasagiline and aminoindan with selegiline on dexamethasone-induced brain cell apoptosis. Neurotox Res. 2009 Apr;15(3):284-90.

Caution: Product has not been fully validated for medical applications. For research use only.

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