Etazolate hydrochloride

Cat. No.:	HY-100936
CAS No.:	35838-58-5
Molecular Formula:	$C_{14}H_{20}CIN_5O_2$
Molecular Weight:	325.79
Target:	Phosphodiesterase (PDE); GABA Receptor
Pathway:	Metabolic Enzyme/Protease; Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

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	a persistent manner following traumatic brain injury (TBI) in mice ^[3] . Etazolate hydrochloride (0.5, 1 mg/kg; p.o.; once a day during 21 days) significantly inhibits the chronic unpredictable mild stress (CUMS)-induced behavioral (decreases sucrose consumption and increases duration of immobility) and biochemical (increases lipid peroxidation and nitrite level; decreases glutathione, superoxide dismutase and catalase activity) changes in Swiss Albino mice (22-25 g) ^[4] . Etazolate hydrochloride (0.5, 1 mg/kg; i.p.; single dose) antagonizes the Reserpine (HY-N0480; 1 mg/kg; i.p.)-induced hypothermia in male Wistar rats (250-275 g) ^[5] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
Animal Mode	el: Male Swiss mice with 28-30 g ^[3]	
Dosage:	1, 3, 10 mg/kg	
Administrati	ion: IP	
Result:	Reduced cerebral œdema when delivered 5 min and 2 h post-TBI.	



REFERENCES

[1]. Xuemei Wei, et al. Targeting phosphodiesterase 4 as a therapeutic strategy for cognitive improvement. Bioorg Chem. 2023 Jan;130:106278.

[2]. Arijit Bhattacharya, et al.Role of a differentially expressed cAMP phosphodiesterase in regulating the induction of resistance against oxidative damage in Leishmania donovani. Free Radic Biol Med. 2009 Nov 15;47(10):1494-506.

[3]. Eleni Siopi, et al. Etazolate, an α-secretase activator, reduces neuroinflammation and offers persistent neuroprotection following traumatic brain injury in mice. Neuropharmacology. 2013 Apr;67:183-92.

[4]. Ankur Jindal, et al. Etazolate, a phosphodiesterase 4 inhibitor reverses chronic unpredictable mild stress-induced depression-like behavior and brain oxidative damage. Pharmacol Biochem Behav. 2013 Apr;105:63-70.

[5]. Ankur Jindal, et al. Antidepressant-like effect of etazolate, a cyclic nucleotide phosphodiesterase 4 inhibitor--an approach using rodent behavioral antidepressant tests battery. Eur J Pharmacol. 2012 Aug 15;689(1-3):125-31.

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

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