

Product Data Sheet

Product Name: Rilmenidine

Cat. No.: GC60325

Chemical Properties

Cas. No. 54187-04-1

SMILES C1(NC(C2CC2)C3CC3)=NCCO1

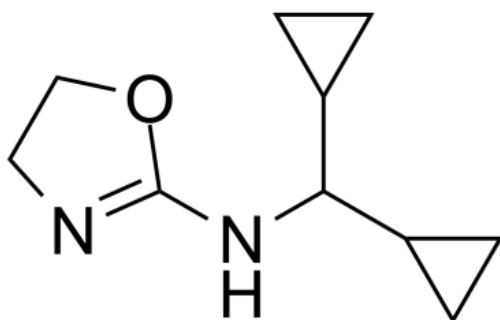
Formula $C_{10}H_{16}N_2O$ M.Wt 180.25

Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, Ethanol: 30 mg/ml, Ethanol:PBS (pH 7.2) (1:6): 0.14 mg/ml Storage

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Rilmenidine, an innovative antihypertensive agent, is an orally active, selective I1 imidazoline receptor agonist. Rilmenidine is an alpha 2-adrenoceptor agonist. Rilmenidine induces autophagy.

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

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Rilmenidine modulates proliferation and stimulates the proapoptotic protein Bax thus inducing the perturbation of the mitochondrial pathway and apoptosis in human leukemic K562 cells[1][2][3].

Rilmenidine (25-100 μ M; 24 hours) inhibits K562 cell proliferation[2]. Cell Viability Assay[2] Cell Line: K562 cells

Rilmenidine-treated N171-82Q mice (i.p.; 4-times a week) displays significant improved forelimb grip strength and all limbs grip strength from 12 to 22 weeks of age[3].

[1]. Reid JL. Rilmenidine: a clinical overview. Am J Hypertens. 2000;13(6 Pt 2):106S-111S. [2]. Srdic-Rajic T, et al. Rilmenidine suppresses proliferation and promotes apoptosis via the mitochondrial pathway in human leukemic K562 cells. Eur J Pharm Sci. 2016;81:172-180. [3]. Rose C, et al. Rilmenidine attenuates toxicity of polyglutamine expansions in a mouse model of Huntington's disease. Hum Mol Genet. 2010;19(11):2144-2153.

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