

Product Data Sheet

Product Name: Stobadine

Cat. No.: GC49500

Chemical Properties

Cas. No. 85202-17-1

SMILES CC1=CC=C2N[C@@](CCN(C3)C)([H])[C@@]3([H])C2=C1

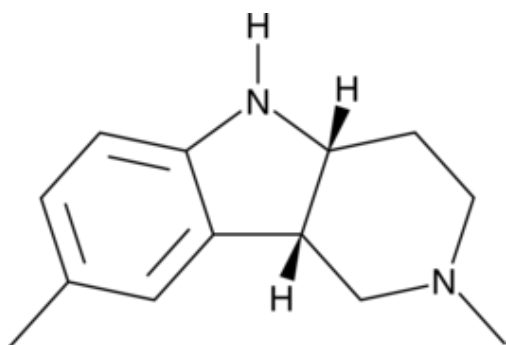
Formula C₁₃H₁₈N₂ M.Wt 202.3

Solubility DMSO: >100mM Storage -20°C

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

Stobadine is a pyridoindole antioxidant.¹ It scavenges hydroxyl, peroxy, and alkoxy radicals and quenches singlet oxygen in cell-free assays. *Ex vivo*, stobadine (2 mg/kg) reduces lipid peroxidation induced by hypoxia and reoxygenation in rat forebrain.² It improves survival in a rat model of carotid artery ligation-induced cerebral ischemia. Stobadine (1 mg/kg, i.v.) increases myocardial blood flow and decreases infarct area in a dog model of myocardial infarction induced by acute occlusion of the left coronary artery.¹ Dietary administration of stobadine (0.05% w/w) delays the development of cataracts and reduces eye lens protein oxidation and plasma levels of malondialdehyde (MDA) in a rat model of diabetes induced by streptozotocin.³

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

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1. HorÁkovÁ, L., and Štolc, S. Antioxidant and pharmacodynamic effects of pyridoindole stobadine. *Gen. Pharmacol.* 30(5):627-638 (1998)
2. Štolc, S., VlkolinskÝ, R., and PavlÁsek, J. Neuroprotection by the pyridoindole stobadine: A minireview. *Brain Res. Bull.* 42(5):335-340 (1997)
3. Kyselova, Z., Gajdosik, A., Gajdosikova, A., et al. Effect of the pyridoindole antioxidant stobadine on development of experimental diabetic cataract and on lens protein oxidation in rats: Comparison with vitamin E and BHT. *Mol. Vis.* 11:56-65 (2005)

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