
Product Data Sheet

Product Name: 5-Methoxytryptamine hydrochloride

Cat. No.: GC64182

Chemical Properties

Cas. No. 66-83-1

Formula C₁₁H₁₅CIN₂O M.Wt 226.7

Solubility Storage Store at -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

5-Methoxytryptamine hydrochloride, a metabolite of Melatonin, is a nonselective 5-HT receptor agonist. 5-Methoxytryptamine hydrochloride has no affinity for the 5-HT₃ receptor. 5-Methoxytryptamine hydrochloride is also a potent antioxidant and has radioprotective action[1][2][3].

5-Methoxytryptamine hydrochloride induces a significant hyperglycemia above the dosage of 1 mg/kg in rats[1].

[1]. J Yamada, et al. Hyperglycemia induced by the 5-HT receptor agonist, 5-methoxytryptamine, in rats: involvement of the peripheral 5-HT_{2A} receptor. Eur J Pharmacol. 1997 Apr 4;323(2-3):235-40. [2]. S Bayari, et al. Fourier transform infrared spectra and molecular structure of 5-methoxytryptamine, N-acetyl-5-methoxytryptamine and N-phenylsulfonamide-5-methoxytryptamine. Spectrochim Acta A Mol Biomol Spectrosc. 2003 Apr;59(6):1255-63.

[3]. D A Craig, et al. 5-Methoxytryptamine and 2-methyl-5-hydroxytryptamine-induced desensitization as a discriminative tool for the 5-HT₃ and putative 5-HT₄ receptors in guinea pig ileum. Naunyn Schmiedebergs Arch Pharmacol. 1990 Jul;342(1):9-16.

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

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