
Product Data Sheet

Product Name: 5-Methoxytryptophol

Cat. No.: GC30712

Chemical Properties

Cas. No. 712-09-4

SMILES OCCC1=CNC2=C1C=C(OC)C=C2Formula $C_{11}H_{13}NO_2$

M.Wt 191.23

Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, Ethanol: 30 mg/ml, PBS (pH 7.2): 0.3 mg/ml

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 sizes: ship with RT, or blue ice upon request.

Structure **Background**

5-methoxy Tryptophol (5-MTOH) is a natural indole that is produced by the pineal gland.^{1,2} It is a product of melatonin metabolism that may be biologically active.^{3,4} The levels of 5-MTOH in plasma vary in a diurnal pattern in rodents and humans.^{5,6}

1. Delvigs, P., Mclsaac, W.M., and Taborsky, R.G. The metabolism of 5-methoxytryptophol. *J. Biol. Chem.* 240(1):348-350 (1965)
 2. Mullen, P.E., Leone, R.M., Hooper, J., et al. Pineal 5-methoxy tryptophol in man. *Psychoneuroendocrinology* 4(2):117-126 (1979)
 3. Slominski, A., Semak, I., Pisarchik, A., et al. Conversion of L-tryptophan to serotonin and melatonin in human melanoma cells. *FEBS Lett.* 511(1-3):102-106 (2002)
 4. Zisapel, N., Egozi, Y., and Laudon, M. Circadian variations in the inhibition of dopamine release from adult and newborn rat hypothalamus by melatonin. *Neuroendocrinology* 40(2):102-108 (1985)
 5. Reddy, M.Y., and Jaqota, A. Melatonin has differential effects on age-induced stoichiometric changes in daily chronomics of serotonin metabolism in SCN of male Wistar rats. *Biogerontology* 16(3):285-302 (2015)
 6. Wurtman, R.J., and Ozaki, Y. Physiological control of melatonin synthesis and

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

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secretion: Mechanisms, generating rhythms in melatonin, methoxytryptophol, and arginine vasotocin levels and effects on the pineal of endogenous catecholamines, the estrous cycle, and environmental lightingj. Neural Transm. Suppl.13(13)59-70(1978)

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