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## Product Data Sheet

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Product Name:  $\alpha$ -Methylserotonin

Cat. No.: GC64563

**Chemical Properties**

Cas. No. 304-52-9

Formula C<sub>11</sub>H<sub>14</sub>N<sub>2</sub>O

M.Wt 190.24

Solubility	Methanol : 62.5 mg/mL (328.53 mM; ultrasonic and warming and heat to 60°C) DMSO : 50 mg/mL (262.83 mM; Need ultrasonic)	Store Storage at - 20°C
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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**

$\alpha$ -Methylserotonin is a potent and selective agonist of 5-HT<sub>2</sub> receptor.  $\alpha$ -Methylserotonin is an analogue of serotonin formed in vivo from  $\alpha$ -methyltryptophan.  $\alpha$ -Methylserotonin mediates the lymphatic smooth muscle contraction and prevents the up-regulation of serotonin-receptor-mediated phosphoinositide hydrolysis[1][2][3].

[1]. Dobbins DE. Receptor mechanisms of serotonin-induced prenodal lymphatic constriction in the canine forelimb. *Am J Physiol.* 1998 Feb;274(2):H650-4.

[2]. Brumley MR, et al. The serotonergic agonists quipazine, CGS-12066A, and alpha-methylserotonin alter motor activity and induce hindlimb stepping in the intact and spinal rat fetus. *Behav Neurosci.* 2005 Jun;119(3):821-33.

[3]. Edwards E, et al. (+/-)-1-(2,5-Dimethoxy-4-iodophenyl)-2-aminopropane(DOI) and alpha-methyl-5-HT: 5-HT<sub>2</sub> receptor agonistic action on phosphatidylinositol metabolism in the rat fronto-cingulate and entorhinal cortex. *Neuropharmacology.* 1992 Jul;31(7):615-21.

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

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