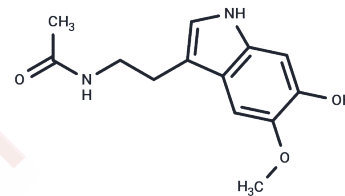


6-Hydroxymelatonin

Chemical Properties

CAS No. :	2208-41-5
Formula:	C ₁₃ H ₁₆ N ₂ O ₃
Molecular Weight:	248.28
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	6-Hydroxymelatonin is the main active metabolite and endogenous metabolite of Melatonin via CYP1A2, an agonist of MT2 receptor with antioxidant and neuroprotective effects, and effectively reduces KCN-induced lipid peroxidation and superoxide anion production.
Targets(IC50)	Endogenous Metabolite,MT Receptor
In vitro	In mouse cortical neuron mitochondria, 6-Hydroxymelatonin (1-10μM, 30min) significantly reduced ROS and H ₂ O ₂ and protected against APP ⁺ -induced oxidative stress [1].

Solubility Information

Solubility	DMSO: 40 mg/mL (161.11 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (8.06 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0277 mL	20.1386 mL	40.2771 mL
5 mM	0.8055 mL	4.0277 mL	8.0554 mL
10 mM	0.4028 mL	2.0139 mL	4.0277 mL
50 mM	0.0806 mL	0.4028 mL	0.8055 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Magliocco G, Le Bloc'h F, Thomas A, Desmeules J, Daali Y. Simultaneous determination of melatonin and 6-hydroxymelatonin in human overnight urine by LC-MS/MS. J Chromatogr B Analyt Technol Biomed Life Sci. 2021 Sep 1;1181:122938[1].

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