

3-Hydroxy agomelatine

Chemical Properties

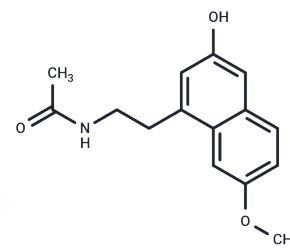
CAS No. : 166526-99-4

Formula: C₁₅H₁₇NO₃

Molecular Weight: 259.3

Storage: Store at low temperature, Keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	3-Hydroxy agomelatine (3-Hydroxyagomelatine) is a 5-HT _{2C} receptor antagonist used in the study of neurological disorders.
Targets(IC ₅₀)	5-HT Receptor
In vitro	Agomelatine and S 21517 have relatively strong affinity for 5-HT _{2C} receptors, with K _i values of 0.21 μM and 0.13 μM, respectively, while their metabolite 3-Hydroxy agomelatine has a lower affinity, with a K _i value of 1.8 μM, which is about 10-fold lower than that of the former two. All three are antagonists at the 5-HT _{2C} receptor, and the order of potency is S 21517 > agomelatine > 3-Hydroxy agomelatine. [1]
In vivo	In Wistar rats, 3-Hydroxy agomelatine, administered by intraperitoneal injection at doses ranging from 1.25 to 40 mg/kg, did not significantly affect penile erections induced by mCPP and Ro 60-0175. [1]

Solubility Information

Solubility	DMSO: 200 mg/mL (771.31 mM), Sonication is recommended. H ₂ O: 80 mg/mL (308.52 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: 5 mg/mL (19.28 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	3.8565 mL	19.2827 mL	38.5654 mL
5 mM	0.7713 mL	3.8565 mL	7.7131 mL
10 mM	0.3857 mL	1.9283 mL	3.8565 mL
50 mM	0.0771 mL	0.3857 mL	0.7713 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

Chagraoui A, et al. Agomelatine(S 20098) antagonizes the penile erections induced by the stimulation of 5-HT_{2C} receptors in Wistar rats. *Psychopharmacology (Berl)*. 2003 Oct;170(1):17-22.

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