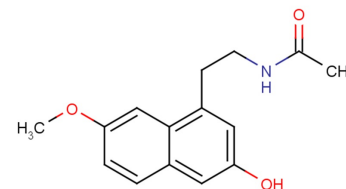


## 3-Hydroxy agomelatine

## Chemical Properties

CAS No.:	166526-99-4
Formula:	C <sub>15</sub> H <sub>17</sub> NO <sub>3</sub>
Molecular Weight:	259.3
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	3-Hydroxy agomelatine is an Agomelatine metabolite and a 5-HT <sub>2C</sub> receptor antagonist (IC <sub>50</sub> : 3.2 μM; K <sub>i</sub> : 1.8 μM).
Targets(IC <sub>50</sub> )	5-HT <sub>2C</sub> Receptor: 1.8 μM (K <sub>i</sub> )
In vitro	The metabolite 3-Hydroxy agomelatine (S 21540) has a 10-fold lower affinity (K <sub>i</sub> = 1.8 μM). Agomelatine, S 21517, and 3-Hydroxy agomelatine (0.1-100 μM) are antagonists at 5-HT <sub>2C</sub> receptors, with a rank order of efficacy as follows: S 21517>Agomelatine>3-Hydroxy agomelatine.
In vivo	Increasing doses (1.25~40 mg/kg, i.p.) of 3-Hydroxy agomelatine does not affect the penile erections induced by mCPP and Ro 60-0175 in Wistar rat.

## Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.857 mL	19.283 mL	38.565 mL
5 mM	0.771 mL	3.857 mL	7.713 mL
10 mM	0.386 mL	1.928 mL	3.857 mL
50 mM	0.077 mL	0.386 mL	0.771 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

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

Inhibitors · Natural Compounds · Compound Libraries

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