
Product Data Sheet

Product Name: 3-Hydroxy agomelatine

Cat. No.: GC60499

Chemical Properties

Cas. No. 166526-99-4

SMILES CC(NCCC1=C2C=C(OC)C=CC2=CC(O)=C1)=O

Formula $C_{15}H_{17}NO_3$ M.Wt 259.3

Solubility Storage Store at $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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

3-Hydroxy agomelatine is a metabolite of Agomelatine. 3-Hydroxy agomelatine is a 5-HT_{2C} receptor antagonist with an IC₅₀ of 3.2 μM and a K_i of 1.8 μM [1].

Agomelatine and S 21517 have moderately high affinities for 5-HT_{2C} receptors (K_i = 0.21 μM and 0.13 μM , respectively). The metabolite 3-Hydroxy agomelatine (S 21540) has a 10-fold lower affinity (K_i = 1.8 μM). Agomelatine, S 21517 and 3-Hydroxy agomelatine (10^{-7} - 10^{-4} M) are antagonists at 5-HT_{2C} receptors, with a rank order of efficacy as follows: S 21517 > Agomelatine > 3-Hydroxy agomelatine[1].

Increasing doses (from 1.25 to 40 mg/kg, intraperitoneal injection) of 3-Hydroxy agomelatine (S 21540) does not affect the penile erections induced by mCPP and Ro 60-0175 in Wistar rat[1].

[1]. 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.

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

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