

Agomelatine

Catalog No: tcsc0740

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:

138112-76-2

Formula:

 $\mathsf{C}_{15}\mathsf{H}_{17}\mathsf{NO}_2$

Pathway: Neuronal Signaling;GPCR/G Protein

Target:

5-HT Receptor; 5-HT Receptor

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 100 mg/mL (411.02 mM)

Alternative Names:

S-20098

Observed Molecular Weight:

243.3

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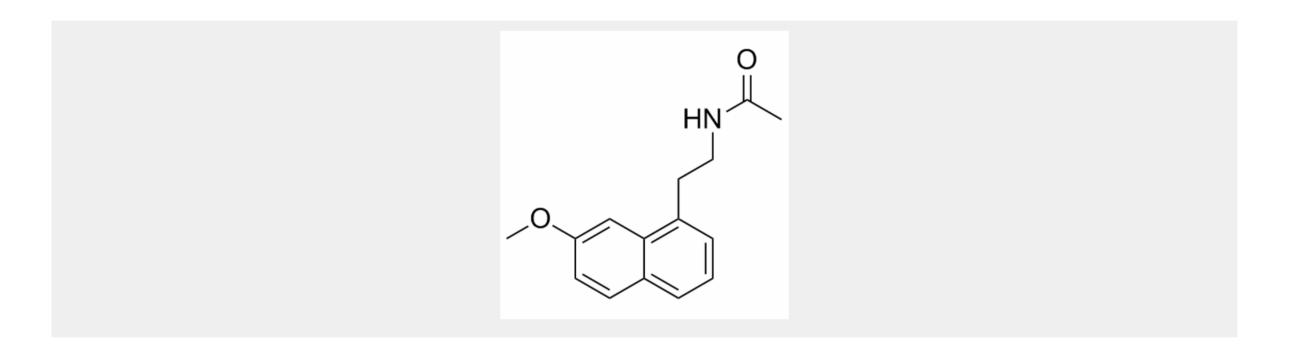
Product Description

Agomelatine is a competitive antagonist of human and porcine serotonin (5-HT2C) receptors (pKi = 6.2 and 6.4, respectively) as well as human 5-HT2B receptors (pKi = 6.6).

IC50 value: 6.2 (pKi, 5-HT2c); 6.6 (pKi, 5-HT2b)

Target: 5-HT2C Receptor; 5-HT2B receptor

It is classified as a norepinephrine-dopamine disinhibitor (NDDI) due to its antagonism of the 5-HT2C receptor. Activation of 5-HT2C receptors by serotonin inhibits dopamine and norepinephrine release. Antagonism of 5-HT2C results in an enhancement of DA and NE release and activity of frontocortical dopaminergic and adrenergic pathways. Agomelatine is also a potent agonist at melatonin receptors which makes it the first melatonergic antidepressant. Agomelatine is an antidepressant drug.



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