



## **Agomelatine**

**Catalog No: tcsc0740** 

**Observed Molecular Weight:** 

243.3

Available Sizes
Size: 5mg
Size: 10mg
Size: 50mg
Size: 100mg
Specifications
CAS No: 138112-76-2
Formula: C <sub>15</sub> H <sub>17</sub> NO <sub>2</sub>
Pathway: Neuronal Signaling;GPCR/G Protein
<b>Farget:</b> 5-HT Receptor;5-HT Receptor
Purity / Grade: >98%
<b>Solubility:</b> DMSO : ≥ 100 mg/mL (411.02 mM)
Alternative Names: 5-20098





## **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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