

Agomelatine (L (+) -Tartaric acid)

Catalog No: tcsc1780



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

824393-18-2

Formula:

$C_{19}H_{23}NO_8$

Pathway:

Neuronal Signaling;GPCR/G Protein

Target:

5-HT Receptor;5-HT Receptor

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

S-20098 L(+)-Tartaric acid

Observed Molecular Weight:

393.39

Product Description

Agomelatine (L(+)-Tartaric acid) is an antidepressant, which is classified as a norepinephrine-dopamine disinhibitor (NDDI) due to its antagonism of the 5-HT_{2C} receptor.

Target: 5-HT_{2c} receptor

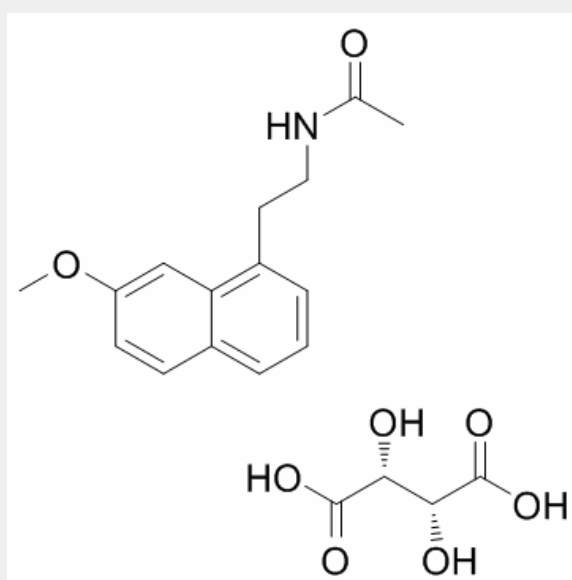
Agomelatine L(+)-Tartaric acid is an antidepressant drug. It is classified as a norepinephrine-dopamine disinhibitor (NDDI) due to its antagonism of the 5-HT_{2C} receptor. Activation of 5-HT_{2C} receptors by serotonin inhibits dopamine and norepinephrine release. Antagonism of 5-HT_{2C} results in an enhancement of DA and NE release and activity of frontocortical dopaminergic and adrenergic pathways [1].

A total of 42 rats were divided into 7 groups as each composed of 6 rats: (1) intact, (2) 40 mg/kg agomelatine, (3) 140 mg/kg N-acetylcysteine (NAC), (4) 2 g/kg paracetamol, (5) 2 g/kg paracetamol + 140 mg/kg NAC, (6) 2 g/kg paracetamol + 20 mg/kg agomelatine, and (7) 2 g/kg paracetamol + 40 mg/kg agomelatine groups. Paracetamol-induced hepatotoxicity was applied and liver and blood samples were analyzed histopathologically and biochemically. There were statistically significant increases in the activities of aspartate aminotransferase, alanine aminotransferase, levels of tumor necrosis factor- α (TNF- α) and interleukin-6 (IL-6) and 8-iso-prostane, and decreases in the activity of superoxide dismutase and level of glutathione in the group treated with paracetamol. Administration of agomelatine and NAC separately reversed these changes significantly [2].

Clinical indications: Depression; Obsessive compulsive disorder

FDA Approved Date: October 2011

Toxicity: Hyperhidrosis; Abdominal pain; Nausea; Vomiting; Diarrhoea; Constipation; Back pain; Fatigue



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!