

Amisulpride

Catalog No: tcsc1791



Available Sizes

Size: 100mg

Size: 200mg

Size: 500mg



Specifications

CAS No:

71675-85-9

Formula:

$C_{17}H_{27}N_3O_4S$

Pathway:

GPCR/G Protein;Neuronal Signaling

Target:

Dopamine Receptor;Dopamine Receptor

Purity / Grade:

>98%

Solubility:

H2O : 0.2 mg/mL (0.54 mM; Need ultrasonic)

Alternative Names:

DAN 2163

Observed Molecular Weight:

369.48

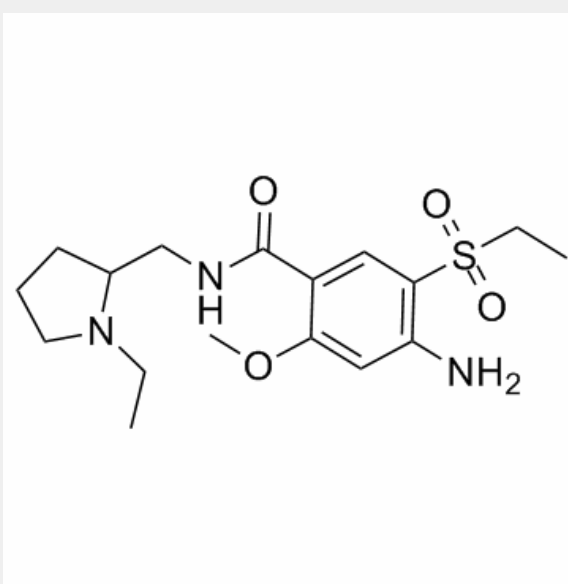
Product Description

Amisulpride is a **dopamine D₂/D₃ receptor** antagonist with **K_is** of 2.8 and 3.2 nM for human **dopamine D₂** and **D₃**, respectively.

IC₅₀ & Target: K_i: 2.8 nM (D₂ receptor), 3.2 nM (D₃ receptor)^[1]

In Vitro: Amisulpride is an atypical dopamine D₂/D₃ receptor antagonist with K_is of 2.8 and 3.2 nM for human dopamine D₂ and D₃, respectively. Amisulpride (100 nM) inhibits quinpirole-elicited [³H]thymidine incorporation with an IC₅₀ value of 22±3 nM (n=3). Amisulpride slightly but significantly increases [³H]dopamine release from slices of the rat striatum (S₂/S₁=0.88±0.04 under control conditions, n=6; 1.04±0.08 in the presence of 100 nM Amisulpride, n=4; P[1].

In Vivo: Only the highest dose of Amisulpride (100 mg/kg) significantly reduces dopamine levels in the striatum or limbic system. Amisulpride significantly increases the synthesis of dopamine in the rat striatum and limbic system at doses of 20 and 100 mg/kg. Amisulpride (0.5 to 75 mg/kg) fails to provoke an additional increase in dopa accumulation in the striatum but slightly accelerates, at 75 mg/kg, dopamine synthesis in the limbic system. In comparison with vehicle-treated controls, Amisulpride (10 mg/kg) increases extracellular dopamine levels. The administration of Amisulpride (0.5 to 15 mg/kg s.c.) provokes a time- and dose-dependent increase in the stimulation-evoked dopamine release. Amisulpride decreases striatal ACh levels significantly at 30 and 100 mg/kg (87.5% and 56.3% of control levels, respectively)^[1]. In both acute study, Amisulpride (70 mg/kg, p.o.) significantly increases the duration of swimming behavior [F(3,28)=45.90, p[2].



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