

Product Data Sheet

Product Name: (S)-Amisulpride

Cat. No.: GC63655

Chemical Properties

Cas. No. 71675-92-8

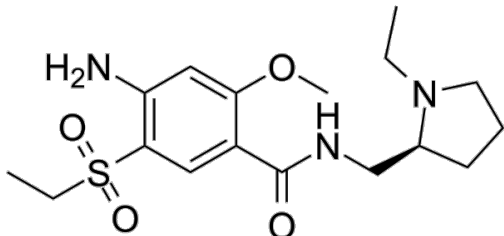
Formula $C_{17}H_{27}N_3O_4S$ M.Wt 369.48

Solubility DMSO : 100 mg/mL (270.65 mM; Need ultrasonic) Storage Store at -20°C

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

(S)-Amisulpride (Esamisulpride) is a potent dopamine D₂/D₃ receptor antagonist. (S)-Amisulpride is

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

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an antagonist at the 5-HT₇ receptor with a K_i of 900 nM. (S)-Amisulpride has antipsychotic and antidepressant effects[1][2].

(S)-Amisulpride (Esamisulpride) displays high affinity binding at both D₂ and D₃ receptors and is approximately twice as potent as racamisulpride and 20-50 times more potent than (R)-amisulpride at these receptors[2]

The (S)-amisulpride (10mg/kg, s.c.) stimulus is rapidly acquired and was shown to be dose-related, time dependent (effective between 30 and 120min) and stereoselective male C57BL/6 mice[1].

[1]. Timothy J Donahue, et al. (S)-amisulpride as a discriminative stimulus in C57BL/6 mice and its comparison to the stimulus effects of typical and atypical antipsychotics. Eur J Pharmacol. 2014 Jul 5;734:15-22.

[2]. Vincent Grattan, et al. Antipsychotic Benzamides Amisulpride and LB-102 Display Polypharmacy as Racemates, S Enantiomers Engage Receptors D₂ and D₃, while R Enantiomers Engage 5-HT₇. ACS Omega. 2019 Aug 15;4(9):14151-14154.

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