

Product Datasheet

S-Amisulpride

Catalog No. **BP-02081** · CAS **71675-92-8** · Form **free base** · Physical state **solid** · Color **White to light yellow** · Version **1.0** · Revision **2026-09-14**

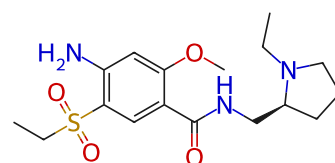
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Target Dopamine Receptor; 5-HT Receptor	Research area Neurological Disease
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Molecular formula **C₁₇H₂₇N₃O₄S**

Molecular weight **369.4790**

STRUCTURE



DESCRIPTION

(S)-Amisulpride (Esamisulpride) is a potent dopamine D₂/D₃ receptor antagonist. (S)-Amisulpride is an antagonist at the 5-HT₇ receptor with a K_i of 900 nM. (S)-Amisulpride has antipsychotic and antidepressant effects.

BIOLOGICAL ACTIVITY

In Vitro

Esamisulpride is a 5-HT₇ receptor antagonist with a K_i of 900 nM.

In Vivo

Esamisulpride (10 mg/kg; s.c.) acts as a discriminative stimulus in male C57BL/6 mice, with dose-related, time-dependent (effective between 30 and 120 min) and stereoselective effects.

SOLUBILITY

Soluble in DMSO 100 mg/mL

REFERENCES

- [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.
- [3]. Hopkins SC, et al. Discovery of Nonracemic Amisulpride to Maximize Benefit/Risk of 5-HT₇ and D₂ Receptor Antagonism for the Treatment of Mood Disorders. *Clin Pharmacol Ther.* 2021 Sep;110(3):808-815.

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Lot CoA and SDS are separate documents.