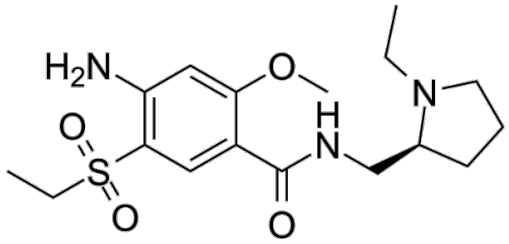
Product Data Sheet

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

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an antagonist at the 5-HT7 receptor with a KI 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.

Caution: Product has not been fully validated for medical applications. For research use only.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA