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DATASHEET

(S)-(-)-Sulpiride

Product overview

Name	(S)-(-)-Sulpiride
Cat No	HB1836
Biological action	Antagonist
Purity	>99%
Description	Selective D_2-like receptor antagonist. Active enantiomer.

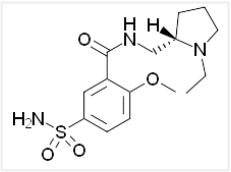
Biological Data

Biological description	Selective D_2-like receptor antagonist. Active enantiomer. (K_i values are 2.5 and 8 nM at D_2, D_3, >1000 nM at D_4, D_5 and D_1 receptors respectively). Antipsychotic. Active *in vivo*.

Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in DMSO (100 mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	(*S*)-(-)-5-Aminosulfonyl-*N*-[(1-ethyl-2-pyrrolidinyl)methyl]-2-methoxybenzamide
Molecular Weight	341.42
Chemical structure	
Molecular Formula	$C_{15}H_{23}N_3O_4S$
CAS Number	23672-07-3
PubChem identifier	688272
SMILES	NS(C1=CC(C(NC[C@]2([H])CCCN2CC)=O)=C(OC)C=C1)(=O)=O
InChiKey	BGRJTUBHPOOWDU-NSHDSACASA-N

References

Antipsychotic drugs: importance of dopamine receptors for mechanisms of therapeutic actions and side effects.

Strange PG (2001) Pharmacol Rev 53(1)
PubMedID 11171942

Cloning of the gene for a human dopamine D5 receptor with higher affinity for dopamine than D1.

Sunahara RK *et al* (1991) Nature 350(6319)

PubMedID 1826762

Clozapine and sulpiride but not haloperidol or olanzapine activate brain DNA demethylation.

Dong E *et al* (2008) Proc Natl Acad Sci U S A 105(36)
PubMedID 18757738