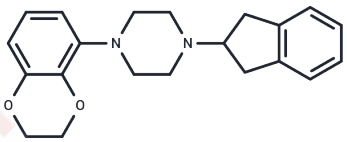
Data Sheet (Cat.No.T28642)

TargetMol

S-15535

Chemical Properties



CAS No. : 146998-34-7

Formula: C21H24N2O2

Molecular Weight: 336.43

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	S-15535 is a highly selective 5-HT1A receptor ligand with both postsynaptic 5-HT1A receptor antagonism and presynaptic 5-HT1A receptor agonism, and can be used in research on mental disorders such as anxiety.
Targets(IC50)	5-HT Receptor

Solubility Information

Solubility	DMSO: 80 mg/mL (237.79 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9724 mL	14.8619 mL	29.7239 mL
5 mM	0.5945 mL	2.9724 mL	5.9448 mL
10 mM	0.2972 mL	1.4862 mL	2.9724 mL
50 mM	0.0594 mL	0.2972 mL	0.5945 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Millan MJ, et al. S 15535: a highly selective benzodioxopiperazine 5-HT1A receptor ligand which acts as an agonist and an antagonist at presynaptic and postsynaptic sites respectively. Eur J Pharmacol. 1993 Jan 5;230(1):99-102.
Peglion JL, Goument B, Despaux N, Charlot V, Giraud H, Nisole C, Newman-Tancredi A, Dekeyne A, Bertrand M, Genissel P, Millan MJ. Improvement in the selectivity and metabolic stability of the serotonin 5-HT(1A) ligand, S 15535: a series of cis- and trans-2-(arylcycloalkylamine) 1-indanols. J Med Chem. 2002 Jan 3;45(1):165-76. PubMed PMID: 11754589.
Vis P, Della Pasqua O, Kruk M, Martin D, Mocaër E, Danhof M, Jochemsen R. Population pharmacokinetic-pharmacodynamic modelling of S 15535, a 5-HT(1A) receptor agonist, using a behavioural model in rats. Eur J Pharmacol. 2001 Mar 2;414(2-3):233-43. PubMed PMID: 11239924.
de Boer SF, Lesourd M, Mocaër E, Koolhaas JM. Somatodendritic 5-HT(1A) autoreceptors mediate the anti-aggressive actions of 5-HT(1A) receptor agonists in rats: an ethopharmacological study with S-15535, alnespirone, and WAY-100635. Neuropsychopharmacology. 2000 Jul;23(1):20-33. PubMed PMID: 10869883.