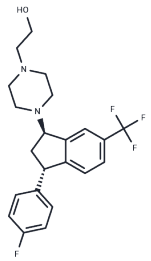
Data Sheet (Cat.No.T67811)

TargetMol

Tefludazine

Chemical Properties



CAS No. : 80680-06-4

Formula: C22H24F4N2O

Molecular Weight: 408.43

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	Tefludazine, a novel neuroleptic with a benzindone structure, is a compound with good oral activity and antagonistic effects on dopamine and 5-hydroxytryptamine receptors. Tefludazine has shown potent dopamine (DA) antagonistic activity in in vitro and in vivo test models in mice, rats and dogs. Tefludazine is a therapeutic agent used to treat psychiatric disorders.
Targets(IC50)	Others
In vivo	The data suggests that the potential antipsychotic compound Tefludazine should not induce neurological side effects at lower doses but still has an antipsychotic activity while repeated treatment with higher doses of Tefludazine might cause extrapyramidal side effects.[2]

Solubility Information

Solubility	DMSO: 55 mg/mL (134.66 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4484 mL	12.242 mL	24.484 mL
5 mM	0.4897 mL	2.4484 mL	4.8968 mL
10 mM	0.2448 mL	1.2242 mL	2.4484 mL
50 mM	0.049 mL	0.2448 mL	0.4897 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

Liljefors T, et al. Conformational analysis and structural comparisons of (1R,3S)-(+)- and (1S,3R)-(-)-tefludazine, (S)-(+)- and (R)-(-)-octoclothepin, and (+)-dexclamol in relation to dopamine receptor antagonism and amine-uptake inhibition. J Med Chem. 1988;31(2):306-312.

Skarsfeldt T. Differential effects after repeated treatment with haloperidol, clozapine, thioridazine and tefludazine on SNC and VTA dopamine neurones in rats. Life Sci. 1988;42(10):1037-1044.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481