Data Sheet (Cat.No.T14490)

TargetMol

Talipexole dihydrochloride

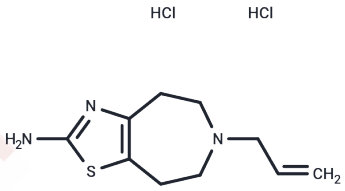
Chemical Properties

CAS No. : 36085-73-1

Formula: C10H17Cl2N3S

Molecular Weight: 282.23

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	Talipexole dihydrochloride (Domnin) is a dopamine D2 receptor agonist, α2-adrenoceptor agonist, and 5-HT3 receptor antagonist in both rat cortical and intestinal membrane fractions with Ki values of 0.35 μM and 0.22 μM, respectively. It displays antiParkinsonian activity.
Targets(IC50)	5-HT Receptor,Adrenergic Receptor,Dopamine Receptor
In vivo	Intracisternal injection of 10 μg/kg Talipexole dihydrochloride promotes vagal-mediated reflex bradycardia induced by injection of angiotensin in β-adrenoceptor-blocked dogs. Intravenous administration of Talipexole dihydrochloride at 30 mcg/kg initially caused an increase in blood pressure in cats. Then there is the long-term drop in blood pressure and heart rate[4].

Solubility Information

Solubility	DMSO: 10 mg/mL (35.43 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 1 mg/mL (3.54 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5432 mL	17.716 mL	35.4321 mL
5 mM	0.7086 mL	3.5432 mL	7.0864 mL
10 mM	0.3543 mL	1.7716 mL	3.5432 mL
50 mM	0.0709 mL	0.3543 mL	0.7086 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

Ricci and Taira Adrenoceptor involvement in the cardiovascular responses to B-HT 920 in sinoaortic denervated rats. Gen.Pharmacol. (1999)32 29.
Momiyama T, Sasa M, Takaori S.Inhibition by talipexole, a thiazolo-azepine derivative, of dopaminergic neurons in the ventral tegmental area.Life Sci. 1991;49(7):535-43.
Kohno Y, Fukuzaki K, Kitahara K, Koja T.Anti-tremor activity of talipexole produced by selective dopamine D2 receptor stimulation in cynomolgus monkeys with unilateral lesions in the ventromedial tegmentum.Eur J Pharmacol. 1997 Jan 29;319(2-3):197-205.
Robertson, G.S., et al., In vivo comparisons of the effects of quinpirole and the putative presynaptic dopaminergic agonists B-HT 920 and SND 919 on striatal dopamine and acetylcholine release. J Pharmacol Exp Ther, 1993. 264 (3): p. 1344-51.
Eur J Pharmacol. 1997 May 1;325(2-3):137-44.