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Zuschläge

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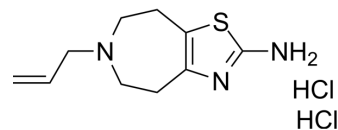
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Talipexole dihydrochloride

Cat. No.:	HY-A0008
CAS No.:	36085-73-1
Molecular Formula:	C ₁₀ H ₁₇ Cl ₂ N ₃ S
Molecular Weight:	282.23
Target:	Adrenergic Receptor; Dopamine Receptor; 5-HT Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 25 mg/mL (88.58 mM; Need ultrasonic)				
	Preparing Stock Solutions	Mass	1 mg	5 mg	10 mg
		Solvent			
		Concentration			
		1 mM	3.5432 mL	17.7160 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
	Please refer to the solubility information to select the appropriate solvent.				
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (8.86 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (8.86 mM); Clear solution 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (8.86 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Talipexole dihydrochloride (B-HT 920 dihydrochloride) is a dopamine D2 receptor agonist, α2-adrenoceptor agonist and 5-HT3 receptor antagonist, which displays antiParkinsonian activity.		
IC ₅₀ & Target	D ₂ Receptor	5-HT ₃ Receptor	α2-adrenergic receptor 25 nM (IC ₅₀)
In Vivo	Intravenous injection of 30 micrograms/kg of Talipexole dihydrochloride (B-HT 920) into cats lead initially to an increase in blood pressure and then to a long-lasting decrease in blood pressure and heart rate. Vagally mediated reflex bradycardia elicited by angiotensin injection in beta-adrenoceptor-blocked dogs was facilitated by intracisternal injection of 10		

micrograms/kg Talipexole dihydrochloride (B-HT 920).

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Ricci and Taira Adrenoceptor involvement in the cardiovascular responses to B-HT 920 in sinoaortic denervated rats. *Gen.Pharmacol.* (1999)32 29.
- [2]. *Eur J Pharmacol.* 1997 May 1;325(2-3):137-44.
- [3]. 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.
- [4]. 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.
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Caution: Product has not been fully validated for medical applications. For research use only.

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