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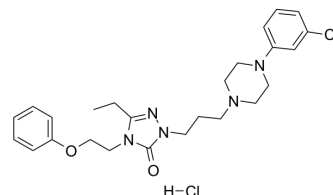
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Nefazodone hydrochloride

Cat. No.:	HY-B1396
CAS No.:	82752-99-6
Molecular Formula:	C ₂₅ H ₃₃ Cl ₂ N ₅ O ₂
Molecular Weight:	506.47
Target:	5-HT Receptor; Adrenergic 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 : 50 mg/mL (98.72 mM; Need ultrasonic)				
	H ₂ O : 2 mg/mL (3.95 mM; Need ultrasonic)				
	Preparing Stock Solutions	Mass	1 mg	5 mg	10 mg
		Solvent			
		Concentration			
		1 mM	1.9745 mL	9.8723 mL	19.7445 mL
In Vivo	Preparing Stock Solutions	5 mM	0.3949 mL	1.9745 mL	3.9489 mL
		10 mM	0.1974 mL	0.9872 mL	1.9745 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 (4.94 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)				
	Solubility: ≥ 2.5 mg/mL (4.94 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil				
In Vivo	Solubility: ≥ 2.5 mg/mL (4.94 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Nefazodone hydrochloride (BMY-13754) is a potent and selective 5HT _{2A} (K _i =5.8 nM) antagonist with moderate inhibition of 5-HT and noradrenaline uptake (IC ₅₀ of 290 and 300 nM, respectively). Nefazodone hydrochloride is a phenylpiperazine antidepressant with less alpha-adrenergic blocking activity ^{[1][2]} .	
IC ₅₀ & Target	5-HT _{2A} Receptor 5.8 nM (K _i)	α ₁ -adrenergic receptor
In Vitro	Nefazodone hydrochloride (BMY-13754) is a phenylpiperazine antidepressant with a mechanism of action that is distinct	

from those of other currently available drugs. Nefazodone hydrochloride potently and selectively blocks postsynaptic serotonin (5-hydroxytryptamine; 5-HT) 5-HT_{2A} receptors and moderately inhibits serotonin and noradrenaline (norepinephrine) reuptake. Nefazodone hydrochloride is also an inhibitor of the hepatic P-450 isoenzyme CYP3A4^[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Biotechnol Bioeng. 2021 Sep 3.

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REFERENCES

[1]. Pullar IA, et al. LY367265, an inhibitor of the 5-hydroxytryptamine transporter and 5-hydroxytryptamine(2A) receptor antagonist: a comparison with the antidepressant, nefazodone. Eur J Pharmacol. 2000;407(1-2):39-46.

[2]. Ellingrod VL, et al. Nefazodone: a new antidepressant. Am J Health Syst Pharm. 1995;52(24):2799-2812.

Caution: Product has not been fully validated for medical applications. For research use only.

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