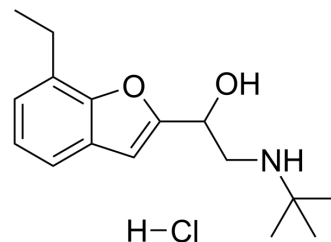


Bufuralol hydrochloride

Cat. No.:	HY-105124A
CAS No.:	60398-91-6
Molecular Formula:	C ₁₆ H ₂₄ ClNO ₂
Molecular Weight:	297.82
Target:	Adrenergic Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	-20°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 : 100 mg/mL (335.77 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.3577 mL	16.7887 mL	33.5773 mL
	5 mM	0.6715 mL	3.3577 mL	6.7155 mL
	10 mM	0.3358 mL	1.6789 mL	3.3577 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description	Bufuralol (Ro 3-4787) hydrochloride is a potent non-selective, orally active β -adrenoreceptor antagonist with partial agonist activity. Bufuralol hydrochloride is a CYP2D6 probe substrate ^{[1][2]} .
IC₅₀ & Target	β adrenergic receptor
In Vitro	Bufuralol (Ro 3-4787) hydrochloride is widely used in the characterization of CYP2D6 activity, and possesses aromatic rings and a basic nitrogen that are characteristic of CYP2D6 substrates ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Bufuralol (Ro 3-4787) hydrochloride metabolism mediated by NADPH exhibits biphasic kinetics and is less efficient than that observed in the presence of cumene hydroperoxide (CuOOH) in and monkey intestines, in agreement with the observations in the livers ^[4] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

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- J Pharmaceut Biomed. 2020, 113870.

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REFERENCES

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- [3]. Sarah M Glass, et al. CYP2D6 Allelic Variants *34, *17-2, *17-3, and *53 and a Thr309Ala Mutant Display Altered Kinetics and NADPH Coupling in Metabolism of Bufuralol and Dextromethorphan and Altered Susceptibility to Inactivation by SCH 66712. Drug Metab Dispos. 2018 Aug;46(8):1106-1117.
- [4]. T Prueksaritanont, et al. (+)-bufuralol 1'-hydroxylation activity in human and rhesus monkey intestine and liver. Biochem Pharmacol. 1995 Oct 26;50(9):1521-5.
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA