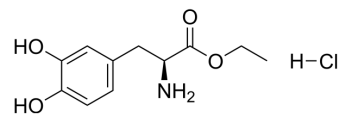


Etilevodopa hydrochloride

Cat. No.:	HY-116016A
CAS No.:	39740-30-2
Molecular Formula:	C ₁₁ H ₁₆ ClNO ₄
Molecular Weight:	261.7
Target:	Dopamine Receptor; Drug Metabolite
Pathway:	GPCR/G Protein; Neuronal Signaling; Metabolic Enzyme/Protease
Storage:	4°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 125 mg/mL (477.65 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	3.8212 mL	19.1058 mL	38.2117 mL
		5 mM	0.7642 mL	3.8212 mL	7.6423 mL
	10 mM	0.3821 mL	1.9106 mL	3.8212 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: PBS Solubility: 25 mg/mL (95.53 mM); Clear solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	Etilevodopa (L-Dopa ethyl ester) hydrochloride, an ethyl-ester proagent of Levodopa, is rapidly hydrolyzed to Levodopa and ethanol by nonspecific esterases in the gastrointestinal tract. Etilevodopa hydrochloride is used for the treatment of Parkinson disease (PD). Levodopa is the direct precursor of dopamine and is a suitable proagent as it facilitates CNS penetration and delivers dopamine ^{[1][2][3]} .
In Vitro	Etilevodopa (L-Dopa ethyl ester) hydrochloride passes unchanged through the stomach to the duodenum, where it is rapidly hydrolyzed by local esterases to Levodopa and ethanol, and is subsequently absorbed into the blood stream as Levodopa ^[1] . Compared with standard Levodopa, Etilevodopa hydrochloride has greater solubility in the stomach, faster passage to the small intestine, and a shortened time to maximum Levodopa concentration ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

-
- [1]. Blindauer K, et al. A randomized controlled trial of etilevodopa in patients with Parkinson disease who have motor fluctuations. Arch Neurol. 2006 Feb;63(2):210-6.
- [2]. Djaldetti R, et al. Pharmacokinetics of etilevodopa compared to levodopa in patients with Parkinson's disease: an open-label, randomized, crossover study. Clin Neuropharmacol. 2003 Nov-Dec;26(6):322-6.
- [3]. Haddad F, et al. Dopamine and Levodopa Prodrugs for the Treatment of Parkinson's Disease. Molecules. 2017 Dec 25;23(1). pii: E40.
-

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