Data Sheet (Cat.No.T15255)

TargetMol

Etilevodopa

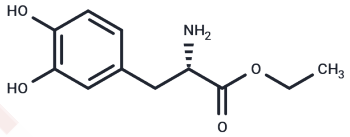
Chemical Properties

CAS No. : 37178-37-3

Formula: C11H15NO4

Molecular Weight: 225.24

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	Etilevodopa is an ethyl-ester prodrug of Levodopa which is used for the treatment of Parkinson's disease (PD). It is rapidly hydrolyzed to Levodopa and ethanol by nonspecific esterases in the gastrointestinal tract. Levodopa is the direct precursor of dopamine.
Targets(IC50)	Others,Dopamine Receptor,Drug Metabolite
In vitro	Etilevodopa passes unchanged through the stomach to the duodenum and is subsequently absorbed into the bloodstream as Levodopa [1]. Etilevodopa has a greater solubility in the stomach, faster passage to the small intestine, and a shortened time to maximum Levodopa concentration, compared with standard Levodopa [2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.4397 mL	22.1985 mL	44.3971 mL
5 mM	0.8879 mL	4.4397 mL	8.8794 mL
10 mM	0.444 mL	2.2199 mL	4.4397 mL
50 mM	0.0888 mL	0.444 mL	0.8879 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

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.
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.
Haddad F, et al. Dopamine and Levodopa Prodrugs for the Treatment of Parkinson's Disease. Molecules. 2017 Dec 25;23(1). pii: E40.

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