
Product Data Sheet

Product Name: Etilevodopa

Cat. No.: GC38779

Chemical Properties

Cas. No. 37178-37-3

SMILES N[C@H](C(OCC)=O)CC1=CC=C(C(O)=C1)OFormula $C_{11}H_{15}NO_4$ M.Wt 225.24

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Etilevodopa (L-Dopa ethyl ester), an ethyl-ester prodrug of Levodopa, is rapidly hydrolyzed to Levodopa and ethanol by nonspecific esterases in the gastrointestinal tract. Etilevodopa is used for the treatment of Parkinson disease (PD). Levodopa is the direct precursor of dopamine and is a suitable prodrug as it facilitates CNS penetration and delivers dopamine[1][2][3].

Etilevodopa (L-Dopa ethyl ester) 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 has greater solubility in the stomach, faster passage to the small intestine, and a shortened time to maximum Levodopa concentration[2].

[1]. 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. [2]. 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. [3]. Haddad F, et al. Dopamine and

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

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Levodopa Prodrugs for the Treatment of Parkinson's Disease. Molecules. 2017 Dec 25;23(1). pii: E40.

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