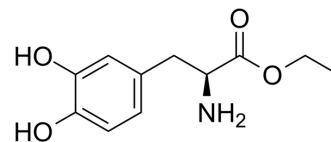


## Etilevodopa

<b>Cat. No.:</b>	HY-116016		
<b>CAS No.:</b>	37178-37-3		
<b>Molecular Formula:</b>	C <sub>11</sub> H <sub>15</sub> NO <sub>4</sub>		
<b>Molecular Weight:</b>	225.24		
<b>Target:</b>	Dopamine Receptor; Drug Metabolite		
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling; Metabolic Enzyme/Protease		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### BIOLOGICAL ACTIVITY

<b>Description</b>	<p>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<sup>[1][2][3]</sup>.</p>
<b>In Vitro</b>	<p>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<sup>[1]</sup>. 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<sup>[2]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### REFERENCES

- [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 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.**

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