

## Levodopa Datasheet

5<sup>th</sup> Edition (Revised in January, 2017)

### [ Product Information ]

**Name:** Levodopa

**Catalog No.:** CFN99800

**Cas No.:** 59-92-7

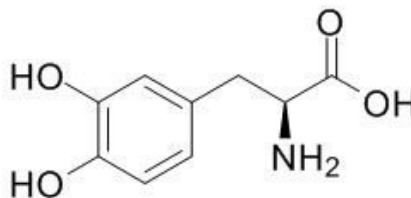
**Purity:** >=98%

**M.F:** C<sub>9</sub>H<sub>11</sub>NO<sub>4</sub>

**M.W:** 197.20

**Physical Description:** White powder

**Synonyms:** 3,4-Dihydroxy-L-phenylalanine.



### [ Intended Use ]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

### [ Source ]

The seeds of *Mucuna sempervirens* Hemsl.

### [ Biological Activity or Inhibitors ]

The clinical data suggest that levodopa either slows the progression of Parkinson's

disease or has a prolonged effect on the symptoms of the disease; in contrast, the neuroimaging data suggest either that levodopa accelerates the loss of nigrostriatal dopamine nerve terminals or that its pharmacologic effects modify the dopamine transporter, the potential long-term effects of levodopa on Parkinson's disease remain uncertain.<sup>[1]</sup>

## **[ Solvent ]**

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

## **[ HPLC Method ]<sup>[2]</sup>**

Mobile phase: Methanol- Phosphate buffer (PH2.8, adjusted with orthophosphoric acid)  
=20:80;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 282 nm.

## **[ Storage ]**

2-8°C, Protected from air and light, refrigerate or freeze.

## **[ References ]**

[1] Fahn S, Oakes D, Shoulson I, *et al. N. Engl. J. Med.*, 2004, 351(24):2498-508.

[2] Kumar S S, Natraj D K, Khan A, *et al. J. Pharm. Res.*, 2011(11):4060-2.

## **[ Contact ]**

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