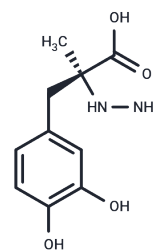


## Carbidopa

## Chemical Properties

CAS No. :	28860-95-9
Formula:	C <sub>10</sub> H <sub>14</sub> N <sub>2</sub> O <sub>4</sub>
Molecular Weight:	226.23
Appearance:	no data available
Storage:	keep away from direct sunlight,store at low temperature
	Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## Biological Description

Description	Carbidopa (Lodosyn) is an aromatic-L-amino-acid decarboxylase inhibitor (IC <sub>50</sub> : 29±2 μM). It is used in PARKINSON DISEASE to reduce peripheral adverse effects of LEVODOPA.
Targets(IC <sub>50</sub> )	Aryl Hydrocarbon Receptor,Decarboxylase

## Solubility Information

Solubility	DMSO: 4.5 mg/mL (19.89 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.4203 mL	22.1014 mL	44.2028 mL
5 mM	0.8841 mL	4.4203 mL	8.8406 mL
10 mM	0.442 mL	2.2101 mL	4.4203 mL
50 mM	0.0884 mL	0.442 mL	0.8841 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.

## Reference

- Durso, R., et al., Variable absorption of carbidopa affects both peripheral and central levodopa metabolism. J Clin Pharmacol, 2000. 40(8): p. 854-60.
- Han L, Song B, Zhang P, et al.PC3T: a signature-driven predictor of chemical compounds for cellular transition. Communications Biology.2023, 6(1): 989.
- Orlefors, H., et al., Carbidopa pretreatment improves image interpretation and visualisation of carcinoid tumours with 11C-5-hydroxytryptophan positron emission tomography. Eur J Nucl Med Mol Imaging, 2006. 33(1): p. 60-5.

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