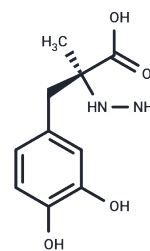


Carbidopa

Chemical Properties

CAS No. :	28860-95-9
Formula:	C10H14N2O4
Molecular Weight:	226.23
Storage:	Keep away from direct sunlight, Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Carbidopa (Lodosyn) is an aromatic-L-amino-acid decarboxylase inhibitor (IC ₅₀ : 29±2 μM). It is used in PARKINSON DISEASE to reduce peripheral adverse effects of LEVODOPA.
Targets(IC ₅₀)	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)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (4.42 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

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.

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

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481