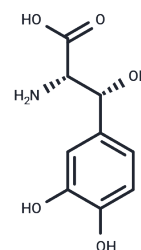


Droxidopa

Chemical Properties

CAS No. :	23651-95-8
Formula:	C ₉ H ₁₁ NO ₅
Molecular Weight:	213.19
Storage:	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	Droxidopa (L-DOPS) is an effective orally active norepinephrine precursor capable of crossing the blood-brain barrier. It can increase standing blood pressure, improve symptoms of orthostatic hypotension, and enhance standing ability. Droxidopa is commonly used in studies of neurogenic orthostatic hypotension (nOH) and alternative treatments for attention-deficit/hyperactivity disorder (ADHD).
Targets(IC50)	Adrenergic Receptor
In vivo	Droxidopa is administered orally and is absorbed and converted to norepinephrine by the enzyme dopa decarboxylase, which, together with endogenous norepinephrine, increases neurotransmitter levels. Droxidopa also crosses the blood-brain barrier (BBB) and is converted to norepinephrine and epinephrine in the brain.

Solubility Information

Solubility	DMSO: 2.14 mg/mL (10.04 mM), Sonication is recommended. H ₂ O: 1.25 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	4.6907 mL	23.4533 mL	46.9065 mL
5 mM	0.9381 mL	4.6907 mL	9.3813 mL
10 mM	0.4691 mL	2.3453 mL	4.6907 mL
50 mM	0.0938 mL	0.4691 mL	0.9381 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

- Mathias CJ. Clin Auton Res, 2008, 18 Suppl 1, 25-29.
- Mathias CJ, et al. Clin Auton Res, 2001, 11(4), 235-242.
- Kaufmann H. Clin Auton Res, 2008, 18 Suppl 1, 19-24.
- Goldstein DS. Cardiovasc Drug Rev, 2006, 24(3-4), 189-203.

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