

## Droxidopa hydrochloride

## Chemical Properties

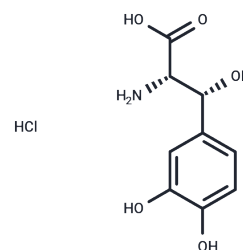
CAS No. : 1260173-94-1

Formula: C<sub>9</sub>H<sub>12</sub>ClNO<sub>5</sub>

Molecular Weight: 249.65

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Droxidopa (L-DOPS) hydrochloride is a potent, orally active precursor to norepinephrine that elevates standing blood pressure, mitigates orthostatic hypotension symptoms, and enhances standing capability. It holds promise for research in neurogenic orthostatic hypotension (nOH) and alternative attention deficit hyperactivity disorder (ADHD) treatments [1] [2] [3] [4].
Targets(IC50)	Others,Adrenergic Receptor
In vivo	Administering droxidopa hydrochloride (200 mg/kg; i.p.) modifies the activity of dopamine neurons and the prefrontal cortex, thereby enhancing attention-deficit/hyperactivity disorder (ADHD)-like behaviors in rats [2]. At dosages of 10 and 20 mg/kg (i.p.), it markedly increases paw withdrawal latency and mitigates mechanical hypersensitivity to thermal stimuli in 6-OHDA-lesioned rats five weeks post-surgery [3]. In an animal model using male Sprague-Dawley rats weighing 250-380g [2], a dosage of 200 mg/kg was administered, with a preceding benserazide injection (10 mg/kg, i.p.) 20 or 30 minutes before the L-DOPS infusion. This resulted in a significant reduction in the hyperactivity of BZ-pretreated SHR/NCrl rats at 30 minutes (P < 0.01) and 40 minutes (P < 0.05) post-injection, improved inattention-like behaviors, and lessened impulsive-like behaviors in both SHR/NCrl and Wistar rats.

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	4.0056 mL	20.028 mL	40.0561 mL
5 mM	0.8011 mL	4.0056 mL	8.0112 mL
10 mM	0.4006 mL	2.0028 mL	4.0056 mL
50 mM	0.0801 mL	0.4006 mL	0.8011 mL

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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.

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