

## Isoproterenol-D7 hydrochloride

## Chemical Properties

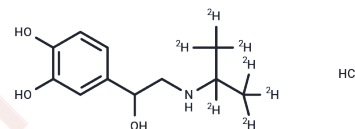
CAS No. : 2517584-04-0

Formula: C<sub>11</sub>H<sub>18</sub>ClNO<sub>3</sub>

Molecular Weight: 254.76

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	Isoproterenol-D7 hydrochloride Isoproterenol-D7 is intended for use as an internal standard for the quantification of isoproterenol by GC- or LC-MS. Isoproterenol is an agonist of $\beta$ 1- and $\beta$ 2-adrenergic receptors ( $\beta$ 1- and $\beta$ 2-ARs; $K_{is}$ = 224 and 458 nM, respectively). It is selective for $\beta$ 1- and $\beta$ 2-ARs over $\beta$ 3-ARs ( $K_i$ = 1,570 nM). Isoproterenol inhibits contractions in isolated field-stimulated rat vas deferens ( $EC_{50}$ = 45.6 nM). In vivo, isoproterenol (0.33 mg/kg) decreases blood pressure and increases water intake in nephrectomized rats. It reduces blood pressure and increases heart rate in renal hypertensive rabbits. Isoproterenol inhibits histamine-induced bronchospasms in anesthetized dogs. Formulations containing isoproterenol have been used in the treatment of bradydysrhythmias and to improve breathing during anesthesia.
Targets(IC50)	Endogenous Metabolite, Adrenergic Receptor

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.9253 mL	19.6263 mL	39.2526 mL
5 mM	0.7851 mL	3.9253 mL	7.8505 mL
10 mM	0.3925 mL	1.9626 mL	3.9253 mL
50 mM	0.0785 mL	0.3925 mL	0.7851 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.

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