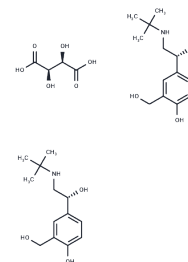


## Levalbuterol tartrate

## Chemical Properties

CAS No. : 661464-94-4  
 Formula: C<sub>17</sub>H<sub>27</sub>N<sub>1</sub>O<sub>9</sub>  
 Molecular Weight: 389.39  
 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	Levalbuterol tartrate is a short-acting $\beta_2$ -adrenergic receptor agonist and the R enantiomer of salbutamol.
Targets(IC50)	Adrenergic Receptor
In vivo	<p><b>METHODS:</b> In a randomized, double-blind, placebo-controlled, three-way crossover study, 30 stable asthmatic patients received a single dose of 100 mcg of levalbuterol tartrate, 200 mcg of salbutamol, or placebo using a pMDI. Forced expiratory volume in 1 second (FEV<sub>1</sub>) and forced vital capacity (FVC) were measured at baseline and within 6 hours after dosing.</p> <p><b>RESULTS</b> Levalbuterol tartrate and salbutamol produced a significantly superior bronchodilator response to placebo. Both drugs demonstrated equivalent time-dependent bronchodilator responses as measured by the area under the curve for percent change in FEV<sub>1</sub> and FVC over 6 hours. The onset of action, mean maximum bronchodilator response, and duration of bronchodilator response were similar for levalbuterol tartrate and salbutamol. [2]</p>

## Solubility Information

Solubility	DMSO: 27.5 mg/mL (70.62 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.5681 mL	12.8406 mL	25.6812 mL
5 mM	0.5136 mL	2.5681 mL	5.1362 mL
10 mM	0.2568 mL	1.2841 mL	2.5681 mL
50 mM	0.0514 mL	0.2568 mL	0.5136 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.

### Reference

Randall MJ, et al. Anti-inflammatory effects of levalbuterol-induced  $11\beta$ -hydroxysteroid dehydrogenase type 1 activity in airway epithelial cells. *Front Endocrinol (Lausanne)*. 2015 Jan 12;5:236.

Jantikar A, et al. Comparison of bronchodilator responses of levosalbutamol and salbutamol given via a pressurized metered dose inhaler: a randomized, double blind, single-dose, crossover study. *Respir Med*. 2007 Apr;101(4):845-9.

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