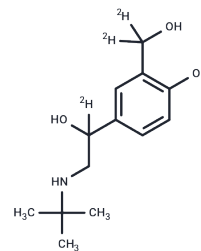


Salbutamol-D3

Chemical Properties

CAS No. :	1219798-60-3
Formula:	C ₁₃ H ₁₈ D ₃ NO ₃
Molecular Weight:	242.33
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	Salbutamol-D3 is a deuterated compound of Salbutamol. Salbutamol (T1139) has a CAS number of 18559-94-9. Albuterol stimulates beta2-adrenergic receptors in the lungs, thereby activating the enzyme adenylate cyclase that catalyzes the conversion of ATP to cyclic-3', 5'-adenosine monophosphate (cAMP). Albuterol Sulfate is the sulfate salt of the short-acting sympathomimetic agent albuterol, a 1:1 racemic mixture of (R)-albuterol and (S)-albuterol with bronchodilator activity. Increased cAMP concentrations relax the bronchial smooth muscle, relieve bronchospasms, and reduce inflammatory cell mediator release, especially from mast cells. To a lesser extent, albuterol stimulates beta1-adrenergic receptors, thereby increasing the force and rate of myocardial contraction.
Targets(IC50)	Adrenergic Receptor

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.1266 mL	20.633 mL	41.266 mL
5 mM	0.8253 mL	4.1266 mL	8.2532 mL
10 mM	0.4127 mL	2.0633 mL	4.1266 mL
50 mM	0.0825 mL	0.4127 mL	0.8253 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

1. Bricchetto L, et al. Am J Physiol Lung Cell Mol Physiol. 2003 Jan;284(1):L133-9.

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