

Salmeterol

Chemical Properties

CAS No. : 89365-50-4

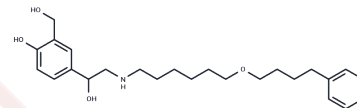
Formula: C₂₅H₃₇N₀O₄

Molecular Weight: 415.57

Keep away from direct sunlight

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	Salmeterol (GR33343X) is a long-acting agonist of beta2-adrenergic receptor (beta 2AR) used for treatment of asthma.
Targets(IC50)	Adrenergic Receptor

Solubility Information

Solubility	DMSO: 250 mg/mL (601.58 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (9.63 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4063 mL	12.0317 mL	24.0633 mL
5 mM	0.4813 mL	2.4063 mL	4.8127 mL
10 mM	0.2406 mL	1.2032 mL	2.4063 mL
50 mM	0.0481 mL	0.2406 mL	0.4813 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

Rong, Y., et al., Probing the salmeterol binding site on the beta 2-adrenergic receptor using a novel photoaffinity ligand, [(125)I]iodoazosalmeterol. *Biochemistry*, 1999. 38(35): p. 11278-86.

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