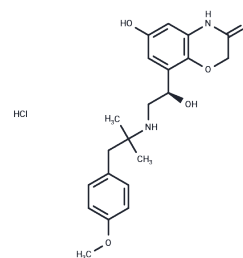


## Olodaterol hydrochloride

## Chemical Properties

CAS No. :	869477-96-3
Formula:	C <sub>21</sub> H <sub>27</sub> ClN <sub>2</sub> O <sub>5</sub>
Molecular Weight:	422.9
Storage:	Pure form: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Olodaterol hydrochloride (BI-1744 HCl) is a novel, long-acting $\beta$ 2-adrenergic agonist (EC <sub>50</sub> s: 97.7 nM for the human $\beta$ 2-adrenoceptor) that exerts its pharmacological effect by binding and activating $\beta$ 2-adrenergic receptors.
Targets(IC <sub>50</sub> )	Adrenergic Receptor

## Solubility Information

Solubility	DMSO: 60 mg/mL (141.88 mM),Sonication is recommended. H <sub>2</sub> O: 15 mg/mL (35.47 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: 2.5 mg/mL (5.91 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	2.3646 mL	11.8231 mL	23.6463 mL
5 mM	0.4729 mL	2.3646 mL	4.7293 mL
10 mM	0.2365 mL	1.1823 mL	2.3646 mL
50 mM	0.0473 mL	0.2365 mL	0.4729 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

Bouyssou T, et al. Discovery of olodaterol, a novel inhaled beta2-adrenoceptor agonist with a 24 h bronchodilatory efficacy. *Bioorg Med Chem Lett*. 2010 Feb 15;20(4):1410-4.

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