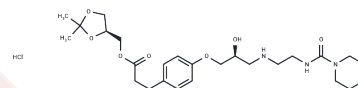


## Landiolol hydrochloride

### Chemical Properties

CAS No. :	144481-98-1
Formula:	C <sub>25</sub> H <sub>40</sub> ClN <sub>3</sub> O <sub>8</sub>
Molecular Weight:	546.05
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	Landiolol hydrochloride (ONO-1101 hydrochloride) is an ultra-short-acting $\beta_1$ selective adrenoceptor antagonist.
Targets(IC50)	Calcium Channel, Adrenergic Receptor, Potassium Channel, ROS

### Solubility Information

Solubility	DMSO: 45 mg/mL (82.41 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 mg/mL (3.66 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	1.8313 mL	9.1567 mL	18.3133 mL
5 mM	0.3663 mL	1.8313 mL	3.6627 mL
10 mM	0.1831 mL	0.9157 mL	1.8313 mL
50 mM	0.0366 mL	0.1831 mL	0.3663 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

Okajima M, et al. Landiolol, an ultra-short-acting  $\beta$ 1-blocker, is useful for managing supraventricular tachyarrhythmias in sepsis. World J Crit Care Med. 2015 Aug 4;4(3):251-7.

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