

U-73343

## Chemical Properties

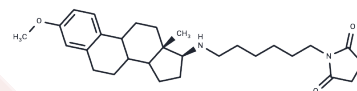
CAS No. : 142878-12-4

Formula: C<sub>29</sub>H<sub>42</sub>N<sub>2</sub>O<sub>3</sub>

Molecular Weight: 466.66

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	U-73343 is an inactive analog of U-73122 and can be used as a negative control. It dose-dependently inhibits acid secretion irrespective of the stimulant. It is a phospholipase C (PLC) and 5-LO (5-lipoxygenase) inhibitor with an IC <sub>50</sub> of 1-2.1 μM for PLC.
Targets(IC <sub>50</sub> )	Phospholipase

## Solubility Information

Solubility	DMSO: 4.67 mg/mL (10.01 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1429 mL	10.7144 mL	21.4289 mL
5 mM	0.4286 mL	2.1429 mL	4.2858 mL
10 mM	0.2143 mL	1.0714 mL	2.1429 mL
50 mM	0.0429 mL	0.2143 mL	0.4286 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

- Muto Y, et al. The putative phospholipase C inhibitor U73122 and its negative control, U73343, elicit unexpected effects on the rabbit parietal cell. *J Pharmacol Exp Ther.* 1997 Sep;282(3):1379-88.
- Ye F, Jiang Y, Zong Y, et al. PLC-IP3-ORAI pathway participates in the activation of the MRGPRB2 receptor in mouse peritoneal mast cells. *Immunology Letters.* 2022
- Cui S, Suo N, Yang Y, et al. The aminosteroid U73122 promotes oligodendrocytes generation and myelin formation. *Acta Pharmacologica Sinica.* 2023: 1-12.

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