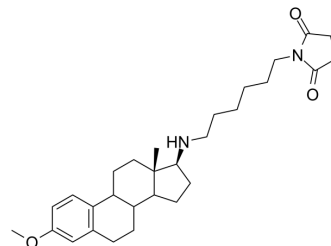


U-73343

Cat. No.:	HY-108630		
CAS No.:	142878-12-4		
Molecular Formula:	C ₂₉ H ₄₂ N ₂ O ₃		
Molecular Weight:	466.66		
Target:	Phospholipase		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 3.33 mg/mL (7.14 mM; ultrasonic and warming and heat to 60°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.1429 mL	10.7144 mL	21.4289 mL
5 mM	0.4286 mL	2.1429 mL	4.2858 mL
10 mM	---	---	---

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

U-73343, works as a protonophore, is an inactive analog of U-73122 and can be used as a negative control. U-73343 dose-dependently inhibits acid secretion irrespective of the stimulant. U-73122 is a phospholipase C (PLC) and 5-LO (5-lipoxygenase) inhibitor with an IC₅₀ of 1-2.1 μM for PLC^{[1][2]}.

In Vitro

U73343, which potently inhibits acid secretion, shows no inhibitory effect on either K⁺-pNPPase or H⁺,K⁺-ATPase activity. U73343 dose-dependently inhibits, histamine (Hist)-, carbachol (CCh)-, and dbcAMPstimulated aminopyrine accumulation in gastric glands^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Sci Signal. 2021 Dec 14;14(713):eabj4243.
- J Biol Chem. 2022 May;298(5):101847.

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REFERENCES

- [1]. 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.
- [2]. A Tatrai, et al. U-73122, a phospholipase C antagonist, inhibits effects of endothelin-1 and parathyroid hormone on signal transduction in UMR-106 osteoblastic cells. *Biochim Biophys Acta.* 1994 Dec 30;1224(3):575-82.
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Caution: Product has not been fully validated for medical applications. For research use only.

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