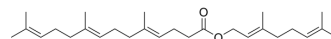


Gefarnate

Cat. No.:	HY-B2206	
CAS No.:	51-77-4	
Molecular Formula:	C ₂₇ H ₄₄ O ₂	
Molecular Weight:	400.64	
Target:	Mucin	
Pathway:	Immunology/Inflammation	
Storage:	Pure form	-20°C 3 years 4°C 2 years
	In solvent	-80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 31.25 mg/mL (78.00 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.4960 mL	12.4800 mL	24.9601 mL
		5 mM	0.4992 mL	2.4960 mL	4.9920 mL
10 mM		0.2496 mL	1.2480 mL	2.4960 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (5.19 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.08 mg/mL (5.19 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.19 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Gefarnate is a agent used for the treatment of gastritis and gastric ulcer, and has been proposed for use in the treatment of dry eye syndrome.
In Vitro	<p>Gefarnate (0.001, 0.01, or 0.1 mg/mL) increases mucin-like glycoprotein secretion in a dose-dependent fashion, but the difference from the control is significant only at the concentration of 0.1 mg/mL. Gefarnate specifically stimulates the mucin-like glycoprotein secretion^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Nakamura M, et al. Gefarnate stimulates secretion of mucin-like glycoproteins by corneal epithelium in vitro and protects corneal epithelium from desiccation in vivo. *Exp Eye Res.* 1997 Oct;65(4):569-74.

Caution: Product has not been fully validated for medical applications. For research use only.

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