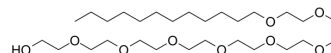


Octaethylene glycol monododecyl ether

Cat. No.:	HY-138941		
CAS No.:	3055-98-9		
Molecular Formula:	C ₂₈ H ₅₈ O ₉		
Molecular Weight:	538.75		
Target:	Influenza Virus		
Pathway:	Anti-infection		
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 : 100 mg/mL (185.61 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM		1.8561 mL	9.2807 mL	18.5615 mL
		5 mM		0.3712 mL	1.8561 mL	3.7123 mL
10 mM			0.1856 mL	0.9281 mL	1.8561 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (4.64 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (4.64 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.64 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Octaethylene glycol monododecyl ether (C12E8) is a non-ionic detergent that can be used for membrane protein extraction. Octaethylene glycol monododecyl ether can solubilize the viral membrane of intact influenza virus ^{[1][2]} .
In Vitro	Octaethylene glycol monododecyl ether (C12E8) has been shown to solubilize the viral membrane of intact influenza virus. The mechanism of solubilization of the viral membrane is based on the accumulation of C12E8 molecules outside the membrane until the formation of micelles leading to the extraction of membrane constituents ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Véronique Nardello-Rataj, et al. Aqueous solutions of didecyldimethylammonium chloride and octaethylene glycol monododecyl ether: Toward synergistic formulations against enveloped viruses. *Int J Pharm.* 2016 Sep 10;511(1):550-559.
- [2]. C Carnero Ruiz, et al. Characterization of mixed non-ionic surfactants n-octyl- β -D-thioglucoside and octaethylene-glycol monododecyl ether: micellization and microstructure. *J Colloid Interface Sci.* 2011 Sep 1;361(1):178-85.
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Caution: Product has not been fully validated for medical applications. For research use only.

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