

## Octaethylene glycol monododecyl ether

### Chemical Properties

CAS No. : 3055-98-9  
 Formula: C<sub>28</sub>H<sub>58</sub>O<sub>9</sub>  
 Molecular Weight: 538.75  
 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	Octaethylene glycol monododecyl ether (C <sub>12</sub> E <sub>8</sub> ) is a non-ionic surfactant and detergent, suitable for assisting LOX activity assays and membrane protein extraction.
Targets(IC50)	Others, Influenza Virus
In vitro	Octaethylene glycol monododecyl ether (C <sub>12</sub> E <sub>8</sub> ) is capable of dissolving the viral envelope of intact influenza virus particles. This solubilization process occurs as C <sub>12</sub> E <sub>8</sub> molecules assemble around the membrane, eventually forming micelles that incorporate and remove lipid and protein components from the viral envelope.[1]

### Solubility Information

Solubility	Ethanol: 30 mg/mL (55.68 mM), Sonication is recommended. PBS (pH 7.2): 1 mg/mL (1.86 mM), Sonication is recommended. DMSO: 80 mg/mL (148.49 mM), Sonication is recommended. DMF: 30 mg/mL (55.68 mM), Sonication is recommended. H <sub>2</sub> O: ≥ 80 mg/mL, 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: 3.3 mg/mL (6.13 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

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	1mg	5mg	10mg
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
50 mM	0.0371 mL	0.1856 mL	0.3712 mL

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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

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.

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