

Polyethylene glycol 12-hydroxystearate

Chemical Properties

CAS No. :	61909-81-7
Formula:	(C ₂ H ₄ O) _n C ₁₈ H ₃₆ O ₃
Molecular Weight:	
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	Polyethylene glycol 12-hydroxystearate (Solutol HS-15) is a permeability enhancer.
Targets(IC50)	Others
In vitro	Polyethylene glycol 12-hydroxystearate promotes the apical-to-basolateral translocation of a model protein (insulin) across Calu-3 monolayers when applied at 37° C. Furthermore there is no statistically significant increase in insulin permeability in the presence of Polyethylene glycol 12-hydroxystearate, relative to the respective control, at 4°C. Polyethylene glycol 12-hydroxystearate treated cells show a statistically significant increase in permeability towards lower molecular weight permeants (5 to 22 kDa) and an absence of a statistically significant increase in permeability of proteins with larger molecular weight, namely albumin and IgG (P>0.05 relative to control).

Solubility Information

Solubility	DMSO: 262.00 mg/mL Ethanol: 100.00 mg/mL, Sonication is recommended. H ₂ O: 25.00 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Reference

Shubber S, et al. Mechanism of mucosal permeability enhancement of CriticalSorb? (Solutol? HS15) investigated in vitro in cell cultures. Pharm Res. 2015 Feb;32(2):516-27.

Xu L, He D, Wu Y, et al. Tanshinone IIA inhibits cardiomyocyte apoptosis and rescues cardiac function during doxorubicin-induced cardiotoxicity by activating the DAXX/MEK/ERK1/2 pathway. Phytomedicine. 2022: 154471.

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