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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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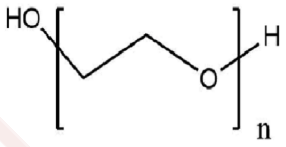
Data Sheet (Cat.No.T19506)

PEG400

Chemical Properties



CAS No. :

Formula: HO(CH2CH2O)nH

Molecular Weight:

Appearance: no data available

Storage: store at 4°C

Biological Description

Description	PEG400 (Polyethylene glycol 400) is a polymer formed from repeating units of ethylene glycol that is water soluble, low immunogenicity, and biocompatible. PEG400 is a neutral polymer with a molecular weight of 400.
Targets(IC50)	Others
In vitro	**METHODS**: Human colorectal adenocarcinoma cells Caco-2 were treated with PEG400 (30 w/v% in 100 μL) for 30 min, and cell growth inhibition was detected by MTT. **RESULTS**: PEG400 treatment reduced cell viability, which was 42%±2% compared with the control. [1]
In vivo	**METHODS**: To study in vivo activity, Simvastatin (60 mg/kg, aqueous 2% DMSO+30% PEG 400+5% Tween 80) was administered by gavage to C57BL/6J mice once daily for six weeks on a CF diet. **RESULTS**: Simvastatin treatment reduced serum cholesterol levels by 18%, and retinal cholesterol and lipoprotein cholesterol levels by 24% and 21%, respectively. [2] **METHODS**: To study the effect of Rapamycin on life expectancy, Rapamycin (8 mg/kg in DMSO+5% PEG-400+5% Tween-80) was administered intraperitoneally to 20-21 month old C57BL/6J mice once daily for three months. **RESULTS**: Three months of Rapamycin treatment was sufficient to increase the life expectancy of middle-aged mice by 60% and improve their healthy lifespan. [3]

Solubility Information

Solubility	DMSO: 100 mg/mL,Sonication is recommended. H2O: 100 mg/mL,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Reference

Pham Le Khanh H, et al. Comparative Investigation of Cellular Effects of Polyethylene Glycol (PEG) Derivatives. Polymers (Basel). 2022 Jan 11;14(2):279.

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