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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PEG300

Chemical Properties

CAS No. : 25322-68-3

Formula:

Molecular Weight: 300

Appearance: no data available

Storage: store at 4°C



Biological Description

Description	PEG300 (Polyethylene glycol 300) is a polymer formed from repeating units of ethylene glycol that is water soluble, low immunogenicity, and biocompatible. PEG300 is a neutral polymer with a molecular weight of 300.
Targets(IC50)	Others
In vitro	METHODS: Human colorectal adenocarcinoma cells Caco-2 were treated with PEG300 (30 w/v% in 100 µL) for 30 min, and cell growth inhibition was detected by MTT. RESULTS: PEG300 treatment severely reduced cell viability, and the cell survival rate was only 20%. [1]
In vivo	METHODS: To study the effect of Dasatinib on diabetic cardiomyopathy, Dasatinib (5 mg/kg in 10% DMSO + 90% PEG-300) was administered by gavage to BKS.Cg-+Leprdb/+Leprdb/OlaHsd (db/db) mice once a week for four weeks. RESULTS: Dasatinib counteracted obesity in the heart and bone marrow as well as cardiac fibrosis. [2] METHODS: To test the in vivo effects of treatment with ALW-II-41-27 (an EPHA2 inhibitor) and/or cetuximab, cetuximab (25 mg/kg in 10% 1-methyl-2-pyrrolidinone + 90% PEG 300 twice weekly) and ALW-II-41-27 (30 mg/kg/day) were injected intraperitoneally into balb/c athymic (nu+/nu+) mice bearing human colorectal adenocarcinoma tumor HCT15 for six weeks. RESULTS: The combination of ALW-II-41-27 and cetuximab significantly inhibited tumor growth. [3]

Solubility Information

Solubility	DMSO: 100 mg/mL (333.33 mM), Sonication is recommended. H ₂ O: 50 mg/mL (166.67 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3333 mL	16.6667 mL	33.3333 mL
5 mM	0.6667 mL	3.3333 mL	6.6667 mL
10 mM	0.3333 mL	1.6667 mL	3.3333 mL
50 mM	0.0667 mL	0.3333 mL	0.6667 mL

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.

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.
Hu Y, Wen Q, Cai Y, et al. Alantolactone induces concurrent

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