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- Mindermengenzuschlag
- Trockeneiszuschlag
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- Expressversand

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Tween 80

Chemical Properties

CAS No. : 9005-65-6
 Formula:
 Molecular Weight:
 Appearance: no data available
 Storage: store at 4°C

Tween 80

Biological Description

| | |
|---------------|---|
| Description | Tween 80 is a nonionic surfactant and emulsifier that reduces bacterial adherence and inhibits biofilm formation. Tween 80 is widely used as a co-solvent in pharmacology experiments because of its ability to enhance the solubility of compounds in the aqueous phase. |
| Targets(IC50) | Others |
| In vitro | <p>METHODS: <i>S. aureus</i>, <i>L. monocytogenes</i>, and <i>P. fluorescens</i> were treated with Tween 80 (0.1% (v/v) in TSB), and growth curves were documented by measuring optical densities at OD600 every 20 min.</p> <p>RESULTS: Tween 80 increased the growth rate of <i>S. aureus</i>. Tween 80 did not affect the growth of <i>L. monocytogenes</i>. The growth rate of the <i>P. fluorescens</i> Tween 80 group was initially higher than that of the control group, but then declined again, with the maximum OD significantly lower than that of the control. [1]</p> |
| In vivo | <p>METHODS: To study the effect of solvents on locomotor activity in mice, Tween-80/Tween-20 (4%-64% (v/v) in saline) was administered intraperitoneally as a single injection to (BALB/c * DBA/2) F1 mice, and the locomotor activity was monitored for 12 h after the administration.</p> <p>RESULTS: Tween-80 significantly decreased the locomotor activity of mice at a concentration of 32%, while Tween-20 significantly decreased the locomotor activity of mice at a concentration of 16%. [2]</p> <p>METHODS: To detect anti-tumor activity in vivo, ATL (15-30 mg/kg in 5% DMSO + 30% PEG300 + 10% Tween 80 + 55% PBS) was injected intraperitoneally into BALB/c mice harboring human thyroid carcinoma tumor 8505C once daily for nine weeks.</p> <p>RESULTS: ATL inhibited the growth of 8505C cell xenografts in vivo. [3]</p> |

Reference

Nielsen CK, et al. Effects of Tween 80 on Growth and Biofilm Formation in Laboratory Media. *Front Microbiol.* 2016 Nov 22;7:1878.
 Hu Y, Wen Q, Cai Y, et al. Alantolactone induces concurrent apoptosis and GSDME-dependent

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