

Tween 80

Cat. No.:	HY-Y1891
CAS No.:	9005-65-6
Molecular Formula:	C ₆₄ H ₁₂₄ O ₂₆
Molecular Weight:	1309.63
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	Pure form -20°C 3 years 4°C 2 years

Tween 80

SOLVENT & SOLUBILITY

In Vitro	DMSO : ≥ 100 mg/mL (76.36 mM) H ₂ O : 50 mg/mL (38.18 mM; Need ultrasonic) * "≥" means soluble, but saturation unknown.
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BIOLOGICAL ACTIVITY

Description	Tween 80 (Polysorbate 80), a surfactant, has been widely used as a solvent for pharmacological experiments. Tween 80 can also reduce bacterial attachment and inhibit biofilm formation.
In Vitro	Tween 80 (Polysorbate 80) is a surfactant which can also reduce bacterial attachment and inhibit biofilm formation ^[1] . Solubility enhancement as high as 100-fold is achieved using 1% Tween 80 in vitro ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Tween 80 (Polysorbate 80) (IP; 10 ml/kg) significantly decreases locomotor activity at a concentration of 32% in saline (v/v) in male outbred (BALB/c x DBA/Z)F1 mice weighing 24-30 g ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Cell. 2021 Sep 2;184(18):4753-4771.e27.
- Signal Transduct Target Ther. 2023 Sep 25;8(1):366.
- Mol Cancer. 2024 Apr 27;23(1):85.
- Immunity. 2024 Mar 12;57(3):513-527.e6.
- Nat Commun. 2025 Jan 3;16(1):289.

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REFERENCES

- [1]. Brandl MT, et al. Effect of the surfactant tween 80 on the detachment and dispersal of Salmonella enterica serovar Thompson single cells and aggregates from cilantro leaves as revealed by image analysis. *Appl Environ Microbiol.* 2014 Aug;80(16):5037-42.
- [2]. Pan Y, et al. Pharmacokinetics study of ferulic acid in rats after oral administration of γ -oryzanol under combined use of Tween 80 by LC/MS/MS. *Eur Rev Med Pharmacol Sci.* 2014;18(2):143-50.
- [3]. C A Castro, et al. Behavioral effects of vehicles: DMSO, ethanol, Tween-20, Tween-80, and emulphor-620. *Pharmacol Biochem Behav.* 1995 Apr;50(4):521-6.
- [4]. Varma RK, Kaushal R, Junnarkar AY, et al. Polysorbate 80: a pharmacological study. *Arzneimittelforschung.* 1985;35(5):804-808.
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Caution: Product has not been fully validated for medical applications. For research use only.

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