



SZABO SCANDIC

Part of Europa Biosite

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

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Tween 20

Cat. No.:	HY-141415			
CAS No.:	9005-64-5			
Target:	Biochemical Assay Reagents			
Pathway:	Others			Polyoxyethylene sorbitan monolaurate
Storage:	Pure form	-20°C	3 years	
		4°C	2 years	
	In solvent	-80°C	6 months	
		-20°C	1 month	

SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (ultrasonic and warming and heat to 60°C)
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.67 mg/mL (Infinity mM); Clear solution

BIOLOGICAL ACTIVITY

Description	Tween 20 (Polysorbate 20) is a polyoxyethylene (POE)-type nonionic surfactant ^{[1][2][3]} .
In Vitro	<p>Addition of Tween 20 can modify lignin surface properties to change its hydrophobicity, hydrogen bonding ability and surface charges, thus reducing the non-productive adsorption of proteins^[1].</p> <p>Tween 20 (0.35%-0.7% w/w) added to 0.05 mol/L of phosphate buffer pH 6.5 dramatically increased the apparent solubility of the drug from 0.8 µg/ml even to 353 µg/ml, while its effect in lower pH or in water was much smaller (20 µg/ml in pH 4.5). The increased concentration of phosphate salts (0.2 mol/l) at pH 6.5 in the presence of 0.7% of Tween 20, resulted in further increase of candesartan cilexetil solubility to 620 µg/ml^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

CUSTOMER VALIDATION

- Int J Pharm. 2023 Oct 31:123566.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Yu-An Chen, et al. Evaluation of the action of Tween 20 non-ionic surfactant during enzymatic hydrolysis of lignocellulose: Pretreatment, hydrolysis conditions and lignin structure. Bioresour Technol. 2018 Dec;269:329-338.

[2]. Katarzyna Hoppe, et al. The effect of polysorbate 20 on solubility and stability of candesartan cilexetil in dissolution media. AAPS PharmSciTech. 2014 Oct;15(5):1116-25.

[3]. Justyna Łuczak, et al. Micelle formation of Tween 20 nonionic surfactant in imidazolium ionic liquids. Colloids and Surfaces A: Physicochemical and Engineering Aspects. Volume 471, 20 April 2015, Pages 26-37.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA