

## Triton X-100

## Chemical Properties

CAS No. :	9002-93-1
Formula:	(C <sub>2</sub> H <sub>4</sub> O) <sub>n</sub> C <sub>14</sub> H <sub>22</sub> O
Molecular Weight:	
Storage:	Keep away from moisture,Keep away from direct sunlight Pure form: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

## Biological Description

Description	Triton X-100 is a non-denaturing detergent that solubilizes lipid membranes. Triton X-100 is commonly used in laboratories and is applied to vaccines at different stages of the manufacturing process. Triton X-100 is listed as an excipient in certain vaccines including split virus influenza vaccines. Triton X-100 is a nonionic surfactant [1] [2].
Targets(IC50)	Others
In vitro	Triton X-100 (ranging from 0.5% to 0.05%; 1 h; Vero E6 cells) obtained with WNV showed that infectivity was reduced by 6 Logs. This effect was not time-dependent using 0.1% Triton X-100. We applied the method to EBOV and one-hour exposure to 0.1% Triton X-100 strongly affected EBOV infectivity (4 Logs of infectivity reduction).[3]

## Solubility Information

Solubility	DMSO: 45.00 mg/mL,Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Reference

- Herman SM, et al. The hidden allergen: Triton X-100, a derivative of polyethylene glycol. J Allergy Clin Immunol Pract. 2021;9(7):2941.
- Ghosh R, et al. Unraveling diverse action of triton X-100 and methimazole on lysozyme fibrillation/aggregation: Physicochemical insights. Int J Biol Macromol. 2021;167:736-745.
- Colavita F, et al. Evaluation of the inactivation effect of Triton X-100 on Ebola virus infectivity. J Clin Virol. 2017;86: 27-30.
- Vrestkin AP, et al. Effect of Triton X-100 on properties of acetylcholinesterase from human erythrocytes. Biokhimiia. 1978;43(1):94-99.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481