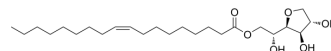


## Sorbitan monooleate

|           |                            |       |          |
|-----------|----------------------------|-------|----------|
| Cat. No.: | HY-N1446C                  |       |          |
| CAS No.:  | 1338-43-8                  |       |          |
| Target:   | Biochemical Assay Reagents |       |          |
| Pathway:  | Others                     |       |          |
| 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 : 100 mg/mL (Need ultrasonic)   |
| In Vivo  | 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline<br>Solubility: ≥ 2.5 mg/mL (Infinity mM); Clear solution |
|          | 2. Add each solvent one by one: 10% DMSO >> 90% corn oil<br>Solubility: ≥ 2.5 mg/mL (Infinity mM); Clear solution                            |

### BIOLOGICAL ACTIVITY

|             |   |
|-------------|---|
| Description | <p>Sorbitan monooleate is a renewable polyol with unique molecular structures for the development and design of bio-based waterborne polyurethane (WPU) with versatility and excellent mechanical properties. Sorbitan monooleate can be used as an excipient, such as nonionic surfactants, emulsifiers. Pharmaceutical excipients, or pharmaceutical auxiliaries, refer to other chemical substances used in the pharmaceutical process other than pharmaceutical ingredients. Pharmaceutical excipients generally refer to inactive ingredients in pharmaceutical preparations, which can improve the stability, solubility and processability of pharmaceutical preparations. Pharmaceutical excipients also affect the absorption, distribution, metabolism, and elimination (ADME) processes of co-administered drugs<sup>[1][2]</sup>.</p> |
|-------------|---|

### REFERENCES

- [1]. Deng H, et al. UV resistance, anticorrosion and high toughness bio-based waterborne polyurethane enabled by a Sorbitan monooleate[J]. Chemical Engineering Journal, 2022, 446: 137124.
- [2]. Elder DP, et al. Pharmaceutical excipients - quality, regulatory and biopharmaceutical considerations. Eur J Pharm Sci. 2016 May 25;87:88-99.

**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