

Cremophor EL

Chemical Properties

CAS No. : 61791-12-6

Formula:

Molecular Weight:

Keep away from moisture,Keep away from direct sunlight

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	Cremophor EL is a nonionic surfactant. cremophor EL inhibits cellular metabolism and suppresses UGT1A1-mediated rhodopsin glucuronidation.
Targets(IC50)	UGT
In vitro	The digestion of the same SLN or NLC, only differing in the surfactant, was higher for SLN/NLC containing polyoxyethylene (20) sorbitan monostearate than Cremophor EL (PEG-35 castor oil) . The higher PEG content of Cremophor EL (PEG-35 castor oil) causing a more pronounced steric hindrance for the access of lipase. [1]

Solubility Information

Solubility	Ethanol: 40 mg/mL,Sonication is recommended. H2O: 20 mg/mL,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Reference

Kiss L, et al. Kinetic analysis of the toxicity of pharmaceutical excipients Cremophor EL and RH40 on endothelial and epithelial cells. J Pharm Sci. 2013 Apr;102(4):1173-81.

Zöller K, et al. Digestion of lipid excipients and lipid-based nanocarriers by pancreatic lipase and pancreatin. Eur J Pharm Biopharm. 2022 Jul;176:32-42.

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