Product Datasheet

Technical Data

Formula						
Molecular Weight		**CAS No.**	61791-12-6			
Solubility (25°C)*	In vitro	DMSO	100 mg/mL			
		Ethanol	100 mg/mL			
		Water	13 mg/mL			
	In vivo (Add solvents to the product individually and in order)	Oral Administration	Homogeneous suspension	CMC-NA	≥5mg/ml	Taking the 1 mL working solution as an example, add 5 mg of this product to 1 ml of CMC-Na solution, mix evenly to obtain a homogeneous suspension with a final concentration of 5 mg/ml.

* <1 mg/ml means slightly soluble or insoluble.
* Please note that Capsid Bio tests the solubility of all compounds in-house, and the actual solubility may differ slightly from published values. This is normal and is due to slight batch-to-batch variations.
* Room temperature shipping (Stability testing shows this product can be shipped at 2-8°C for storage purposes.)

Biological Activity

Description	Cremophor EL, a polyethoxylated surfactant, is a formulation vehicle used for various poorly-water soluble drugs, including the anticancer agent paclitaxel (Taxol). This compound is used in severe anaphylactoid hypersensitivity reactions, hyperlipidaemia, abnormal lipoprotein patterns, aggregation of erythrocytes and peripheral neuropathy.
In vitro	Cremophor EL is a widely used excipient. In the first 10 h, this compound at 5 mg/mL increases the impedance, then decreases it, and after 20 h of treatment, epithelial cell death is detected. This chemical in concentrations corresponding to clinical doses causes endothelial and epithelial toxicity. Both epithelial viability and monolayer integrity are seriously impaired at 10 to 50 mg/mL concentrations of this compound at 24-h treatment. It also enhances cell detachment.[1]
In vivo	Cremophor EL-BB4 formulation-mediated photodynamic therapy (PDT) disseminated cancer in CT26-Luc mouse colon carcinoma model of intraperitoneal (IP) and significantly prolonged survival in mice when used along with white light.
Density	1.05 g/mL at 20 °C

Protocol (from reference)

Cell Assay:[1]

- **Cell lines**
  Human cell lines brain microvascular endothelial, Caco-2 cells
- **Concentrations**
  0.1-50 mg/ml
- **Incubation Time**
  24 h
- **Method**
  Cell lines are seeded in culture dishes at a density of 5 × 10_4 cells/cm_2, and the medium is changed every 2 days. Cremophor EL are tested at 0.1–50 mg/mL concentrations. This compound is used in toxicity assays as a reference compound to cause cell death.

References

https://pubmed.ncbi.nlm.nih.gov/23362123/ https://pubmed.ncbi.nlm.nih.gov/11527683/

RETURN POLICY

Capsid Bio's Unconditional Return Policy ensures a smooth online shopping experience for our customers. If you are in any way unsatisfied with your purchase, you may return any item(s) within 7 days of receiving it. In the event of product quality issues, either protocol related or product related problems, you may return any item(s) within 365 days from the original purchase date. Please follow the instructions below when returning products.

SHIPPING & STORAGE

Capsid Bio products are transported at room temperature. If you receive the product at room temperature, please rest assured, the Capsid Bio Quality Inspection Department has conducted experiments to verify that the normal temperature placement of one month will not affect the biological activity of powder products. After collecting, please store the product according to the requirements described in the datasheet. Most Capsid Bio products are stable under the recommended conditions.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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