Product Datasheet

Technical Data

Formula	$C_{24}H_{22}FN_3O_4.CH_4O_3S$					
Molecular Weight	531.55	**CAS No.**	169869-90-3			
Solubility (25°C)*	In vitro	DMSO	10 mg/mL (18.81 mM)			
		Water	8 mg/mL (15.05 mM)			
		Ethanol	Insoluble			
	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.)

Preparing Stock Solutions

Biological Activity

Description	Exatecan Mesylate (DX-8951f) is a water-soluble and non-pro-drug analog of camptothecin and shows significant **topoisomerase I** inhibition with IC50 of 0.975 μg/ml.
Targets	topoisomerase I [1]
In vitro	Exatecan Mesylate shows both high potency against a series of 32 malignant cell lines and significant topoisomerase I inhibition in vitro. The anti-proliferative activity of this compound is about 6 and 28 times greater than that of SN-38 or SK&F 10486-A, respectively.[1]
In vivo	In mice, the antitumor activity of three doses of Exatecan Mesylate administered i.v. at 4-day intervals against human gastric adenocarcinoma SC-6 xenografts is greater than that of CPT-11 or SK&F 10486-A. Moreover, this compound overcame P-glycoprotein-mediated multi-drug resistance. These data suggest that it has a high antitumor activity and is a potential therapeutic agent.[1]

Protocol (from reference)

Animal Study:[1]

- **Animal Models**
  Mouse
- **Dosages**
  3.325 mg/kg to 50 mg/kg
- **Administration**
  i.v.

References

https://pubmed.ncbi.nlm.nih.gov/7559102/

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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