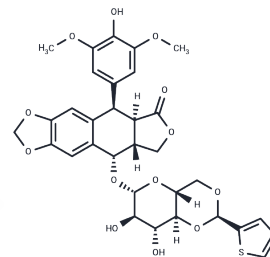


## Teniposide

## Chemical Properties

CAS No. :	29767-20-2
Formula:	C <sub>32</sub> H <sub>32</sub> O <sub>13</sub> S
Molecular Weight:	656.65
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Teniposide (VM26), a semisynthetic derivative of podophyllotoxin with antitumor activity, inhibits DNA synthesis by forming a complex with topoisomerase II and DNA.
Targets(IC50)	Topoisomerase

## Solubility Information

Solubility	Ethanol: < 1 mg/mL (insoluble or slightly soluble), DMSO: 125 mg/mL (190.36 mM),Sonication is recommended. H <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (3.05 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5229 mL	7.6144 mL	15.2288 mL
5 mM	0.3046 mL	1.5229 mL	3.0458 mL
10 mM	0.1523 mL	0.7614 mL	1.5229 mL
50 mM	0.0305 mL	0.1523 mL	0.3046 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

de Lucio B, et al. Y Sci. 2005 Nov;96(11):774-83.

Zhang Y, Zeng F, Zeng M, et al. Identification and Characterization of Alcohol-related Hepatocellular Carcinoma Prognostic Subtypes based on an Integrative N6-methyladenosine methylation Model. International Journal of Biological Sciences. 2021, 17(13): 3554-3572.

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