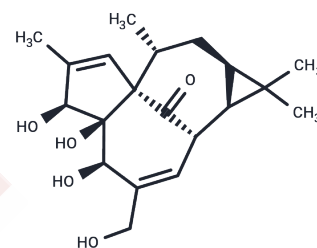


## Ingenol

## Chemical Properties

CAS No. :	30220-46-3
Formula:	C <sub>20</sub> H <sub>28</sub> O <sub>5</sub>
Molecular Weight:	348.43
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	1. Ingenol ((-)-Ingenol) mebutate is an effective treatment for actinic keratosis. 2. Formulating novel derivatives from Ingenol esters may be an innovative approach to develop new lead compounds to reactivate latent HIV. 3. Ingenol is a weak PKC activator and possesses important anticancer activity.
Targets(IC50)	PKC

## Solubility Information

Solubility	DMSO: 50 mg/mL (143.5 mM), Sonication is recommended. (< 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 (5.74 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	2.870 mL	14.3501 mL	28.7002 mL
5 mM	0.574 mL	2.870 mL	5.740 mL
10 mM	0.287 mL	1.435 mL	2.870 mL
50 mM	0.0574 mL	0.287 mL	0.574 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

Batalla A , Flórez, á, Feal C , et al. Clinical Response to Ingenol Mebutate in Patients With Actinic Keratoses[J]. Actas Dermo-Sifiliográficas (English Edition), 2015, 106(10):e55-e61.

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