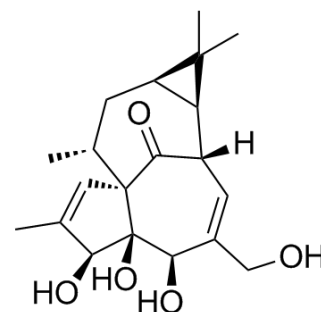


## Ingenol

Cat. No.:	HY-N0865		
CAS No.:	30220-46-3		
Molecular Formula:	C <sub>20</sub> H <sub>28</sub> O <sub>5</sub>		
Molecular Weight:	348.43		
Target:	PKC		
Pathway:	Epigenetics; TGF-beta/Smad		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (287.00 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.8700 mL	14.3501 mL	28.7002 mL
		5 mM	0.5740 mL	2.8700 mL	5.7400 mL
10 mM		0.2870 mL	1.4350 mL	2.8700 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (7.18 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.18 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (7.18 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

Description	Ingenol is a PKC activator, with a K <sub>i</sub> of 30 μM, with antitumor activity.
IC <sub>50</sub> & Target	PKC 30 μM (K <sub>i</sub> )
In Vitro	Ingenol is a PKC activator, with a K <sub>i</sub> of 30 μM. Ingenol induces ornithine decarboxylase activity (1, 3 mM), and causes morphological changes (1 mM) in primary mouse epidermal keratinocytes. Ingenol (125 μM, 250 μM, 500 μM, 1 mM) also

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inhibits cell-cell communication<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[1]. Hasler CM, et al. Specific binding to protein kinase C by ingenol and its induction of biological responses. Cancer Res. 1992 Jan 1;52(1):202-8.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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