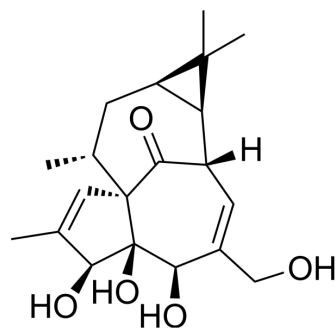


## Ingenol

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



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (287.00 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	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.					
<b>In Vivo</b>	<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

<b>Description</b>	Ingenol is a PKC activator, with a K <sub>i</sub> of 30 μM, with antitumor activity.
<b>IC<sub>50</sub> &amp; Target</b>	PKC 30 μM (K <sub>i</sub> )
<b>In Vitro</b>	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

---

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

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

---

## REFERENCES

---

[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.

---

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA