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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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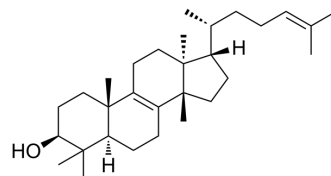
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Euphol

Cat. No.:	HY-N0313
CAS No.:	514-47-6
Molecular Formula:	C ₃₀ H ₅₀ O
Molecular Weight:	426.72
Target:	MAGL; Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 25 mg/mL (58.59 mM; Need ultrasonic)																													
	Preparing Stock Solutions	<table border="1"> <thead> <tr> <th>Solvent</th> <th>Mass</th> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>Concentration</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1 mM</td> <td></td> <td>2.3435 mL</td> <td>11.7173 mL</td> <td>23.4346 mL</td> </tr> <tr> <td>5 mM</td> <td></td> <td>0.4687 mL</td> <td>2.3435 mL</td> <td>4.6869 mL</td> </tr> <tr> <td>10 mM</td> <td></td> <td>0.2343 mL</td> <td>1.1717 mL</td> <td>2.3435 mL</td> </tr> </tbody> </table>	Solvent	Mass	1 mg	5 mg	10 mg	Concentration					1 mM		2.3435 mL	11.7173 mL	23.4346 mL	5 mM		0.4687 mL	2.3435 mL	4.6869 mL	10 mM		0.2343 mL	1.1717 mL	2.3435 mL			
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Please refer to the solubility information to select the appropriate solvent.																														
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (5.86 mM); Suspended solution; Need ultrasonic																													
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.86 mM); Clear solution																													

BIOLOGICAL ACTIVITY

Description	Euphol is a tetracyclic triterpene alcohol isolated from the sap of Euphorbia tirucalli with anti-mutagenic, anti-inflammatory and immunomodulatory effects, orally active. Euphol inhibits the monoacylglycerol lipase (MGL) activity via a reversible mechanism (IC ₅₀ =315 nM). MGL inhibition in the periphery modulates the endocannabinoid system to block the development of inflammatory pain ^[1] .
IC ₅₀ & Target	IC ₅₀ : 315 nM (monoacylglycerol lipase activity) ^[1]
In Vitro	Euphol (0.01-0.3 mM; 24-72 hours) markedly inhibits T47D cells proliferation, the IC ₅₀ values of euphol treatment for 24, 48 and 72 h were 0.26, 0.22 and 0.13 mM, respectively ^[2] . Euphol (0.03 mM; 48 or 72 hours) leads to cell cycle arrest by regulating expression of cell cycle-associated proteins ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Proliferation Assay^[2]

Cell Line:	T47D cells
Concentration:	0.01, 0.03, 0.1 and 0.3 mM
Incubation Time:	24, 48 and 72 hours
Result:	Decreased the percentage of viable cells.

Western Blot Analysis^[2]

Cell Line:	T47D cells
Concentration:	0.03 mM
Incubation Time:	48 and 72 hours
Result:	Increased the expression of p21 and p27, reduced the expression of cyclin A, B1 and D.

REFERENCES

- [1]. Dutra RC, et al. Euphol, a tetracyclic triterpene produces antinociceptive effects in inflammatory and neuropathic pain: the involvement of cannabinoid system. *Neuropharmacology*. 2012 Sep;63(4):593-605.
- [2]. Wang L, et al. Euphol arrests breast cancer cells at the G1 phase through the modulation of cyclin D1, p21 and p27 expression. *Mol Med Rep*. 2013 Oct;8(4):1279-85.
- [3]. Wang L, et al. Euphol arrests breast cancer cells at the G1 phase through the modulation of cyclin D1, p21 and p27 expression. *Mol Med Rep*. 2013 Oct;8(4):1279-85.

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

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