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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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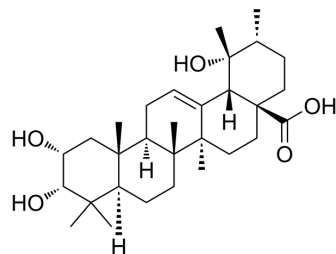
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Euscaphic acid

Cat. No.:	HY-N2566
CAS No.:	53155-25-2
Molecular Formula:	C ₃₀ H ₄₈ O ₅
Molecular Weight:	488.7
Target:	DNA/RNA Synthesis; PI3K; Apoptosis
Pathway:	Cell Cycle/DNA Damage; PI3K/Akt/mTOR; Apoptosis
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (511.56 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.0462 mL	10.2312 mL	20.4625 mL
		5 mM	0.4092 mL	2.0462 mL	4.0925 mL
		10 mM	0.2046 mL	1.0231 mL	2.0462 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.08 mg/mL (4.26 mM); Suspended solution; Need ultrasonic 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.26 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Euscaphic acid, a DNA polymerase inhibitor, is a triterpene from the root of the <i>R. alceaefolius</i> Poir. Euscaphic inhibits calf DNA polymerase α (pol α) and rat DNA polymerase β (pol β) with IC ₅₀ values of 61 and 108 μ M ^[1] . Euscaphic acid induces apoptosis ^[2] .
IC₅₀ & Target	IC ₅₀ : 61 μ M (calf DNA polymerase α); 108 μ M (rat DNA polymerase β) ^[1] ; apoptosis ^[2]
In Vitro	Euscaphic acid induces apoptosis and cell cycle arrest in NPC cells by suppression of the PI3K/AKT/mTOR signaling pathway ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Murakami C, et al. Novel anti-inflammatory compounds from *Rubus sieboldii*, triterpenoids, are inhibitors of mammalian DNA polymerases. *Biochim Biophys Acta*. 2002 Apr 29;1596(2):193-200.

[2]. Dai W, et al. Euscaphic acid inhibits proliferation and promotes apoptosis of nasopharyngeal carcinoma cells by silencing the PI3K/AKT/mTOR signaling pathway. *Am J Transl Res*. 2019 Apr 15;11(4):2090-2098.

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

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