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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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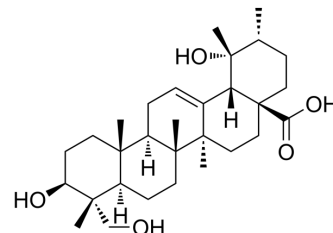
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Rotundic acid

Cat. No.:	HY-N2217
CAS No.:	20137-37-5
Molecular Formula:	C ₃₀ H ₄₈ O ₅
Molecular Weight:	488.7
Target:	Akt; mTOR; p38 MAPK; Apoptosis
Pathway:	PI3K/Akt/mTOR; MAPK/ERK Pathway; Apoptosis
Storage:	4°C, protect from light
	* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (204.62 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		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: 2.5 mg/mL (5.12 mM); Suspended solution; Need ultrasonic					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (5.12 mM); Suspended solution; Need ultrasonic					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.12 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Rotundic acid, a triterpenoid obtained from <i>Ilex rotunda</i> Thunb., induces DNA damage and cell apoptosis in hepatocellular carcinoma through AKT/mTOR and MAPK Pathways. Rotundic acid possesses anti-inflammatory and cardio-protective abilities ^[1] .	
IC ₅₀ & Target	mTOR	p38 MAPK

REFERENCES

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

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