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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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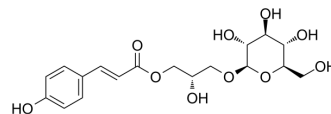
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Regaloside A

Cat. No.:	HY-N7931
CAS No.:	114420-66-5
Molecular Formula:	C ₁₈ H ₂₄ O ₁₀
Molecular Weight:	400.38
Target:	NO Synthase; NF-κB
Pathway:	Immunology/Inflammation; NF-κB
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 (249.76 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	2.4976 mL	12.4881 mL	24.9763 mL
		5 mM	0.4995 mL	2.4976 mL	4.9953 mL
10 mM		0.2498 mL	1.2488 mL	2.4976 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.24 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.24 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.24 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Regaloside A, a phenylpropanoid, shows significant DPPH radical scavenging activity of 58.0% at 160 ppm. Regaloside A has anti-inflammatory activity ^[1] .
IC₅₀ & Target	p65
In Vitro	Regaloside A (50 μg/mL; 2 hours) inhibits the expression of iNOS to 70.3 decreasing COX-2 expression to 131.6 in Raw 264.7 cells treated with LPS (1 μg/ml; pretreatment for 15 min). Regaloside A decreases the ratio of p-p65/p-65 to 40.7 ^[1] . Regaloside A (50 μg/mL; pretreatment for 2 hours) decreases the expression of VCAM-1 to 48.6 in HASMCs with TNF-α (10 ng/ml; for 12 h) ^[1] .

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

CUSTOMER VALIDATION

- Plants. 2023 Oct 24, 12(21), 3666.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Nhan Nguyen Thi, et al. Phenylpropanoids from Liliium Asiatic hybrid flowers and their anti-inflammatory activities. Appl Biol Chem (2017) 60(5):527-533.

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

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