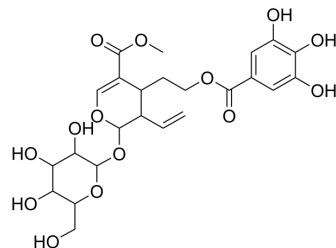


## Cornuside

Cat. No.:	HY-N0631
CAS No.:	131189-57-6
Molecular Formula:	C <sub>24</sub> H <sub>30</sub> O <sub>14</sub>
Molecular Weight:	542.49
Target:	p38 MAPK; NF-κB
Pathway:	MAPK/ERK Pathway; 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 (184.34 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	1.8434 mL	9.2168 mL	18.4335 mL
		5 mM	0.3687 mL	1.8434 mL	3.6867 mL
	10 mM	0.1843 mL	0.9217 mL	1.8434 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 (4.61 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (4.61 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.61 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	Cornuside is a secoiridoid glucoside isolated from the fruit of <i>Cornus officinalis</i> Sieb. et Zucc., which is a traditional oriental medicine for treating inflammatory diseases and invigorating blood circulation. Cornuside inhibits mast cell-mediated allergic response by down-regulating MAPK and NF-κB signaling pathways. Cornuside has anti-allergic effects in vivo and in vitro which suggests a therapeutic application of this agent in inflammatory allergic diseases <sup>[1]</sup> .	
IC <sub>50</sub> & Target	p38 MAP kinase	NF-κB

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## CUSTOMER VALIDATION

- Phytomedicine. 2023 Sep 9, 155077.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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## REFERENCES

[1]. Li L, et al. Cornuside inhibits mast cell-mediated allergic response by down-regulating MAPK and NF- $\kappa$ B signaling pathways. *Biochem Biophys Res Commun*. 2016 Apr 29;473(2):408-14.

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

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