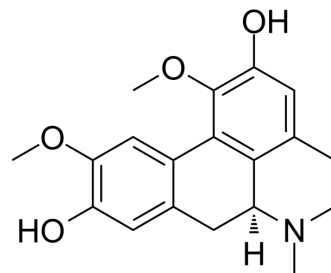


Boldine

Cat. No.:	HY-N6973		
CAS No.:	476-70-0		
Molecular Formula:	C ₁₉ H ₂₁ NO ₄		
Molecular Weight:	327.37		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (305.46 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.0546 mL	15.2732 mL	30.5465 mL
		5 mM	0.6109 mL	3.0546 mL	6.1093 mL
10 mM		0.3055 mL	1.5273 mL	3.0546 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 (7.64 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.64 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.64 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Boldine is an aporphine isoquinoline alkaloid extracted from the root of <i>Litsea cubeba</i> and also possesses these properties, including antioxidant, anti-inflammatory and cytoprotective effects. Boldine suppresses osteoclastogenesis, improves bone destruction by down-regulating the OPG/RANKL/RANK signal pathway and may be a potential therapeutic agent for rheumatoid arthritis ^[1] .
IC₅₀ & Target	OPG/RANKL/RANK ^[1]

REFERENCES

[1]. Zhao H , et al. Boldine isolated from *Litsea cubeba* inhibits bone resorption by suppressing the osteoclast differentiation in collagen-induced arthritis. *Int Immunopharmacol.* 2017 Oct;51:114-123.

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

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