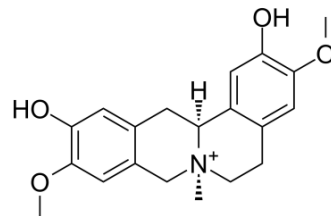


## Phellodendrine

Cat. No.:	HY-N0427
CAS No.:	6873-13-8
Molecular Formula:	C <sub>20</sub> H <sub>24</sub> NO <sub>4</sub>
Molecular Weight:	342.41
Target:	Akt; NF-κB
Pathway:	PI3K/Akt/mTOR; 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 : 5 mg/mL (14.60 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.9205 mL	14.6024 mL	29.2048 mL
	5 mM	0.5841 mL	2.9205 mL	5.8410 mL
	10 mM	0.2920 mL	1.4602 mL	2.9205 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

Phellodendrine, a isoquinoline alkaloid, is one of important characteristic ingredients in the Phellodendri chinensis cortex. phellodendrine is against AAPH-induced oxidative stress through regulating the **AKT/NF-κB** pathway. Phellodendrine has good antioxidant, and anti-inflammatory effect [1].

#### IC<sub>50</sub> & Target

Akt	NF-κB
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### REFERENCES

[1]. Li L , et al. The defensive effect of phellodendrine against AAPH-induced oxidative stress through regulating the AKT/NF-κB pathway in zebrafish embryos. Life Sci. 2016 Jul 15;157:97-106.

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

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