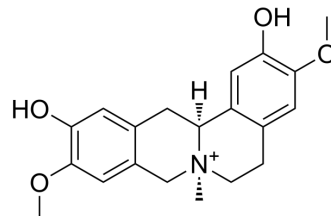


Phellodendrine

Cat. No.:	HY-N0427
CAS No.:	6873-13-8
Molecular Formula:	C ₂₀ H ₂₄ NO ₄
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 Phellodendron amurense. phellodendrine is against AAPH-induced oxidative stress through regulating the AKT/NF-κB pathway. Phellodendrine has good antioxidant, and anti-inflammatory effect [1].

IC₅₀ & Target

NF-κB

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.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA