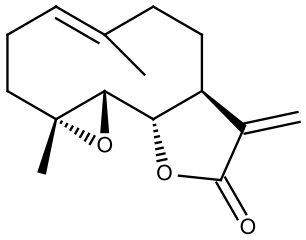
Catalog # 10-2096
Parthenolide
CAS# 20554-84-1
Lot # FBS1002



Binds to, and directly inhibits IκB kinase, resulting in the inhibition of the release of various mediators and inhibition of MAP kinase activation. Demonstrates anti-inflammatory, antisecretory, and spasmolytic activities *in vivo*.

1) Kwok *et al*. (2001), *The anti-inflammatory natural product parthenolide from the medicinal herb Feverfew directly binds to and inhibits IkappaB kinase;* Chem. Biol., **8** 759
2) Hwang *et al*. (1996), *Inhibition of the expression of inducible cyclooxygenase and proinflammatory cytokines by sequiterpene lactones in macrophages correlates with the inhibition of MAP kinases;* Biochem. Biophys. Res. Commun., **226** 810
3) Barsby *et al*. (1992), *Feverfew extractss and parthenolide irreversibly inhibit vascular responses of the rabbit aorta;* J. Pharm. Pharmacol., **44** 737
4) Sumner *et al*. (1992), *Inhibition of 5-lipoxygenase and cyclo-oxygenase in leukocytes by feverfew. Involvement of sesquiterpene lactones and other components;* Biochem. Pharmacol., **43** 2313
5) Groenewegen *et al*. (1990), *A comparison of the effects of an extract of feverfew and parthenolide, a component of feverfew, on human platelet activity in-vitro;* J. Pharm. Pharmacol., **42** 553

PHYSICAL DATA

Molecular Weight:	248.32
Molecular Formula:	$C_{15}H_{20}O_3$
Purity:	97% by TLC [70% ether/hexanes; R_f = 0.26]
	NMR: (Conforms)
Solubility:	DMSO (up to 100 mg/mg), ethanol (up to 20 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

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