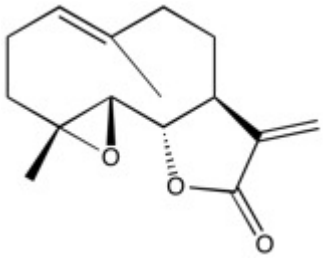
Tribioscience

Parthenolide, IκB Kinase inhibitor

Catalog	Unit
TBI2096-50MG	50 mg
TBI2096-250MG	250 mg

Product Details

Formal Name: Sesquiterpene lactone found in feverfew (Tanacetum parthenium)
Molecular Formula: $C_{15}H_{20}O_3$
Formula Weight: 248.30
CAS Number: 20554-84-1
Purity: >97%
Formulation: powder
Solubility: Soluble in DMSO (up to 100 mg/ml) or in Ethanol (up to 20 mg/ml)
Storage: -20°C
Stability: ≥ 1 year.



Applications

IκB Kinase inhibitor

Functions

Parthenolide is a natural product that inhibits NF-κB signaling via two mechanisms: direct inhibition of IκB kinase, and prevention of NOD2 dimerization. It inhibited expression of COX-2 and proinflammatory cytokines TNF alpha and IL-1 in lipopolysaccharide (LPS)-stimulated macrophages. Parthenolide demonstrates antisecretory and spasmolytic activities in vivo. It also causes proteasomal degradation of HDAC1 (but not other class I/II HDACs), and cell death through the ATM pathway.

Application Procedures

First dissolved in DMSO (up to 100 mg/ml) or in Ethanol (up to 20 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20° for up to 3 months.

For research use only.

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