Parthenolide

HDAC inhibitor

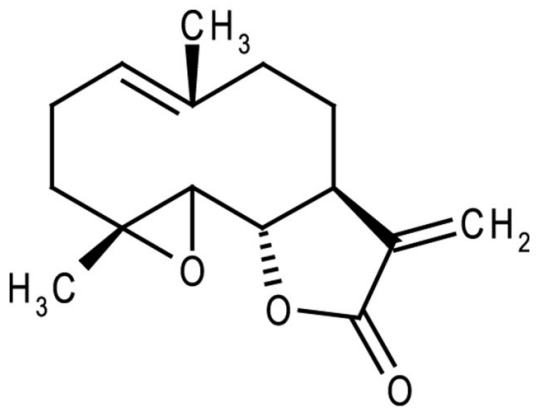
Sesquiterpene lactone. Widely used as an herbal remedy for arthritis and migraine. Has anti-inflammatory, antisecretory and spasmolytic activity. Specifically inhibits activation of NF-κB by preventing the degradation of IκBα and IκBβ. Inhibits activation of MAP kinase (MAPK/ERK) and generation of leukotriene B_4 and thromboxane B_2. Potent anticancer agent. Induces apoptosis in various cancer cell lines. Specifically inhibits histone deacetylase 1 (HDAC1) without affecting other class I/II HDACs. Inhibits tubulin carboxypeptidase (TCP) activity.

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Ordering Information Order Online »

BML-T113-0050	50mg
BML-T113-0250	250mg

Manuals, SDS & CofA View Online »


CH3
CH2
H3C
O
O
O

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended.
Long Term Storage	-20°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	(1aR-[1aR*,4E,7aS*,-10aS*,-10bR*])-2,3-6,7,7a,8,10a,10b-Octahydro-1a,5-dimethyl-8-methyleneoxireno[9,10]cyclo deca[1,2-b]furan-9(1aH)-one
Appearance	White to off-white crystalline solid.
CAS	20554-84-1
Couple Target	HDAC, HDAC1
Couple Type	Inhibitor
Formula	$C_{15}H_{20}O_3$
MI	**14:** 7048
MW	248.3
Purity	≥97% (HPLC, TLC)
RTECS	LY4220000
Solubility	Soluble in DMSO (100mg/ml), dichloromethane (50mg/ml) or 100% ethanol (20mg/ml).
Source	Isolated from feverfew (*Chrysanthemum parthenium*) leaves.

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