Manoalide

Phospholipase inhibitor

Marine sesterterpenoid. Irreversibly inhibits human synovial phospholipase A_2 (PLA_2, IC_{50}=0.02-0.2μM depending on substrate) as well as bee (IC_{50} =0.05μM) and cobra venom (IC_{50}=2μM) PLA_2 by covalently modifying lysine residues. Inhibits human recombinant $sPLA_2$ (IC_{50}=4.7μM) selectively over $cPLA_2$. Also inhibits phospholipase C (PLC, IC_{50}=1.5μM) and Ca^{2+} channels. Inhibits superoxide generation in polymorphonuclear leukocytes. Inhibits the release of arachidonate in cultured mouse peritoneal macrophages and in a mouse *in vivo* model. Has anti-inflammatory and analgesic properties. Shows strong quorum sensing antagonism.

Citations: 14 View Online »

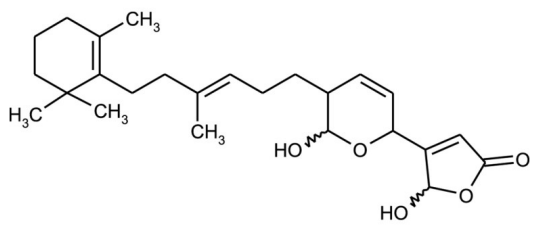
Ordering Information

Order Online »

BML-EI177-0001	1mg

Manuals, SDS & CofA

View Online »


CH3
H3C
CH3
CH3
HO
O
O
O
HO

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended. Stable for at least 1 year after receipt when stored at -20°C. Stock solutions are stable for up to 3 months at -20°C.
Long Term Storage	-20°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Appearance	Colorless to pale waxy or filmy residue.
CAS	75088-80-1
Couple Target	Calcium channel, Phospholipase, PLA, PLC
Couple Type	Inhibitor
Formula	$C_{25}H_{36}O_5$
MW	416.6
Purity	≥98% (TLC)
Solubility	Soluble in DMSO (25mg/ml), 100% ethanol (25mg/ml) or methanol.

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