Brefeldin A

GEF inhibitor

Inhibitor of intracellular protein transport and protein secretion, interfering with trafficking in the *trans*-Golgi network, leading to the accumulation of cycling proteins in ERGIC clusters. Blocks ADP-ribosylation factor (Arf) in an inactive GDP-bound conformation and thereby prevents binding of COPI coats to ERGIC and Golgi membranes. Upon brefeldin A treatment the Golgi rapidly tubulates and fuses with the ER by an energy-, temperature-, and microtubule-dependent process. In contrast, the drug has little effect on the ERGIC, which keeps its identity, although the ERGIC clusters become larger and more uniformly distributed in the cytoplasm of the cells. Inhibits intracellular collagen degradation. Also inhibits apical Na^+ channels in epithelia. Induces apoptosis.

Citations: 39 View Online »

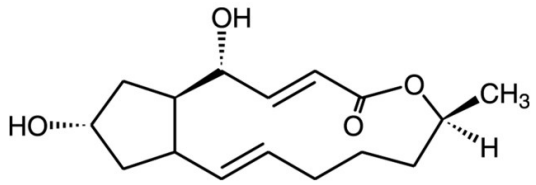
Ordering Information

Order Online »

BML-G405-0005	5mg
BML-G405-0025	25mg

Manuals, SDS & CofA

View Online »


OH
HO
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CH3
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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	BFA, Ascotoxin, Decumbin
Appearance	White to off-white solid.
CAS	20350-15-6
Couple Target	GEF
Couple Type	Inhibitor
Formula	$C_{16}H_{24}O_4$
MI	**14:** 1369
MW	280.4
Purity	≥98% (HPLC)
Solubility	Soluble in DMSO (20mg/ml), 100% ethanol (5mg/ml), methanol, acetone or ethyl acetate (1mg/ml).
Source	Isolated from *Eupenicillium brefeldianum.*

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