Leptomycin B

Nuclear export inhibitor

A potent and specific nuclear export inhibitor. Leptomycin B alkylates and inhibits CRM1/exportin 1, a protein required for nuclear export of proteins containing a nuclear export sequence (NES). In addition to antifungal and antibacterial activities, blocks the cell cycle and is a potent anti-tumor agent. At low nM concentrations, blocks the nuclear export of many proteins including HIV-1 Rev, MAPK/ERK, and NF-κB/IκB and it stabilizes the expression of p53. Other proteins that are influenced by leptomycin B are actin, c-Abl, cyclin B1, MDM2/p53, Iκb, MPF and PKA. Leptomycin B also inhibits the export and translation of many RNAs, including COX-2 and c-Fos mRNAs, by inhibiting export of ribonucleoproteins.

Citations: 13 View Online »

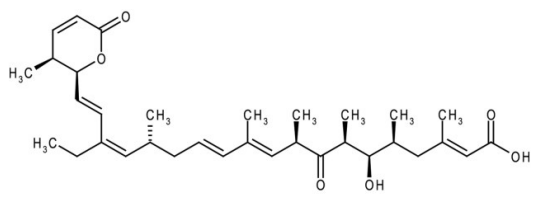
Ordering Information

Order Online »

ALX-380-100-C100	100µg

Manuals, SDS & CofA

View Online »


O
O
H3C
CH3
CH3
CH3
CH3
CH3
CH3
O
OH
H3C
O
OH

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended.
Handling	Protect from light. Packaged under inert gas.
Long Term Storage	-20°C
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	LMB
Appearance	Liquid.
CAS	87081-35-4
Couple Target	Exportin
Couple Type	Inhibitor
Formula	$C_{33}H_{48}O_6$
Formulation	Solution in 100% ethanol.
MW	540.7
Purity	>90% (HPLC)
Solubility	Soluble in methanol, 100% ethanol, dichloromethane, or DMSO; insoluble in water.
Source	Isolated from *Streptomyces sp*.

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