Xestospongin C

IP3 receptor inhibitor

Xestonspongin C is a structurally novel marine alkaloid isolated from the Okinawan sponge *Xestospongia* sp. It is a potent, cell-permeable inhibitor of IP3 receptor-mediated Ca^{2+} release (IC_{50} = 358 nM). However, since xestospongin C also inhibits voltage-dependent Ca^{2+} and K^{+} currents at concentrations similar to those which inhibit the IP3 receptor, it can only be regarded as a selective blocker of the IP3 receptor in permeabilized cells and not in cells with intact plasma membranes. Has vasodilatory properties.

Citations: 20 View Online »

Ordering Information

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BML-CA409-0050	50µg

Manuals, SDS & CofA

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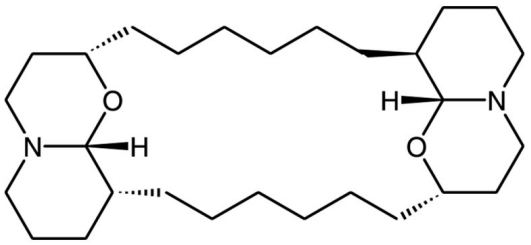
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Handling & Storage

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

Appearance	White to off-white powder.
CAS	88903-69-9
Couple Target	IP3 receptor
Couple Type	Inhibitor
Formula	$C_{28}H_{50}N_2O_2$
MW	446.7
Purity	≥90% (TLC)
Solubility	Soluble in DMSO or 100% ethanol at 2mM.
Source	Synthetic.

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