

**Product Name:** (-)-Xestospongin C

**Catalog No.:** 1280

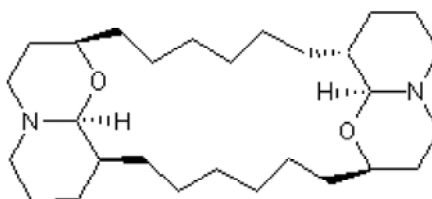
**Batch No.:** 8

CAS Number: 88903-69-9

IUPAC Name: (1*R*,4*aR*,11*R*,12*aS*,13*S*,16*aS*,23*R*,24*aS*)-Eicosahydro-5*H*,17*H*-1,23:11,13-diethano-2*H*,14*H*-[1,11]dioxacycloeicosino[2,3-*b*:12,13-*b'*]dipyridine

## 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	C <sub>28</sub> H <sub>50</sub> N <sub>2</sub> O <sub>2</sub>
<b>Batch Molecular Weight:</b>	446.71
<b>Physical Appearance:</b>	Clear film
<b>Solubility:</b>	DMSO to 2 mM ethanol to 2 mM
<b>Storage:</b>	Desiccate at -20°C
<b>Batch Molecular Structure:</b>	



## 2. ANALYTICAL DATA

<b>TLC:</b>	R <sub>f</sub> = 0.5 (Chloroform:Methanol:Water [85:15:2])
<b>Mass Spectrum:</b>	Consistent with structure

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

Reported inhibitor of IP<sub>3</sub>-dependent Ca<sup>2+</sup> release. Inhibits bradykinin-induced Ca<sup>2+</sup> release in PC12 cells and attenuates PHP-induced IL-2 production in Jurkat T cells. Exhibits no effect on ryanodine receptor-mediated Ca<sup>2+</sup> release in PC12 cells. Does not interact with the IP<sub>3</sub> binding site. Recently shown to be an ineffective antagonist of IP<sub>3</sub>-evoked Ca<sup>2+</sup> release in IP<sub>3</sub> receptor expressing DT40 cells. Cell permeable.

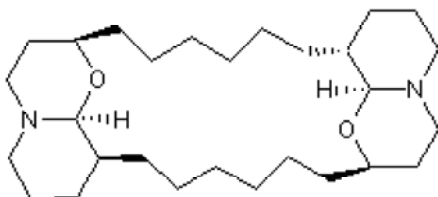
**Physical and Chemical Properties:**

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Batch Molecular Weight: 446.71

Physical Appearance: Clear film

**Batch Molecular Structure:**



**Storage:** Desiccate at -20°C. This product is packaged under an inert atmosphere.

**CAUTION** - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**Solubility & Usage Info:**

DMSO to 2 mM

ethanol to 2 mM

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Saleem et al** (2014) Interactions of antagonists with subtypes of inositol 1,4,5-trisphosphate (IP<sub>3</sub>) receptor. *Br.J.Pharmacol.* **171** 3298. PMID: 24628114.

**Dadsetan et al** (2008) Store-operated Ca<sup>2+</sup> influx causes Ca<sup>2+</sup> release from the intracellular Ca<sup>2+</sup> channels that is required for T cell activation. *J.Biol.Chem.* **283** 12512. PMID: 18316371.

**Ozaki et al** (2002) Inhibitory mechanism of xestospongine-C on contraction and ion channels in the intestinal smooth muscle. *Br.J.Pharmacol.* **137** 1207. PMID: 12466229.

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