

Certificate of Analysis

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Product Name: (-)-Xestospongine C

Catalog No.: 1280

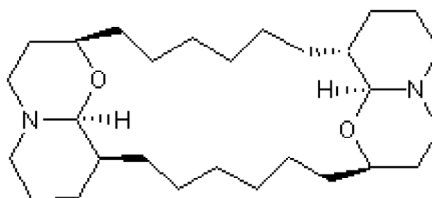
Batch No.: 15

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

Batch Molecular Formula: C₂₈H₅₀N₂O₂
Batch Molecular Weight: 446.71
Physical Appearance: solid
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

Mass Spectrum: Consistent with structure

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

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Description:

(-)-Xestospongine C is a reported inhibitor of IP₃-dependent Ca²⁺ release. Inhibits bradykinin-induced Ca²⁺ release in PC12 cells and attenuates PHP-induced IL-2 production in Jurkat T cells. Exhibits no effect on ryanodine receptor-mediated Ca²⁺ release in PC12 cells and shows no apparent interaction with the IP₃ binding site. Other subsequent reports show (-)-Xestospongine C to be ineffective as an antagonist of IP₃-evoked Ca²⁺ release in IP₃ receptor-expressing DT40 cells. Cell permeable. NOTE: (-)-Xestospongine C is typically used at a final concentration ranging from 0.5 to 10 µM. It is recommended to prepare stock solutions (10x to... Please see product specific page on www.tocris.com for full description.

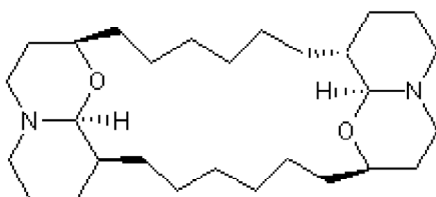
Physical and Chemical Properties:

Batch Molecular Formula: C₂₈H₅₀N₂O₂

Batch Molecular Weight: 446.71

Physical Appearance: solid

Batch Molecular Structure:



Storage: Store 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:

This product is supplied in lyophilized form. It may appear as a solid, gel or film and 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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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 (IP₃) receptor. *Br.J.Pharmacol.* **171** 3298. PMID: 24628114.

Dadsetan et al (2008) Store-operated Ca²⁺ influx causes Ca²⁺ release from the intracellular Ca²⁺ 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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