

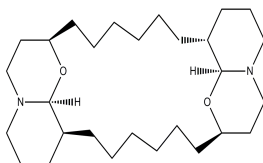
Product: Xestospongine C

ALTERNATE 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; XeC; Araguspongine E

CATALOG #: 2621-10, 50

AMOUNT: 10 µg, 50 µg

STRUCTURE:



MOLECULAR FORMULA: C₂₈H₅₀N₂O₂

MOLECULAR WEIGHT: 446.71

CAS No. 88903-69-9

APPEARANCE: A clear film

SOLUBILITY: DMSO (~ 2 mM) or EtOH (~ 2 mM)

PURITY: >90%

STORAGE: Store at -20°C. Protect from air and light

DESCRIPTION: Xestospongine C is a marine natural product isolated from Pacific basin sponges; it antagonizes the calcium-releasing action of inositol-1,4,5-trisphosphate (IP₃) at the receptor level. Xestospongine C blocks the increase in intracellular calcium in vascular smooth muscle cells completely at a concentration of 25 µM. Xe C also inhibits the sarcoplasmic reticulum Ca²⁺ ATPase pump at concentrations of 700 nM.

REFERENCES: Gafni, J., *et al.* (1997). *Neuron* **19**, 723-733.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

Amlodipine besylate (Cat. No. 2378-50, 250)

2-APB (Cat. No. 1798-100)

Calcitriol (Cat. No. 1880-50, 250)

Dantrolene sodium (Cat. No. 2491-100, 500)

Felodipine (Cat. No. 2399-10, 50)

GV-58 (Cat. No. 2616-1, 5)

Pamidronate disodium (Cat. No. 1884-50, 250)

Ruthenium Red (Cat. No. 2490-50, 250)

Ryanodine (Cat. No. 2489-500, 1000)

Thapsigargin (Cat. No. 1558-1)

FOR RESEARCH USE ONLY! Not to be used in humans.