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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

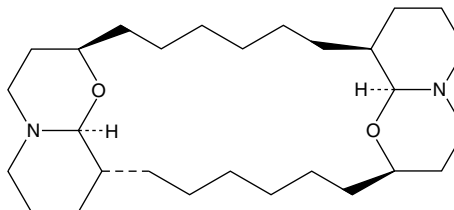
Product Information



Xestospongins C

Item No. 64950

CAS Registry No.: 88903-69-9
Formal Name: [1R-(1R*,4aR*,11R*,12aS*,13S*,16aS*,23R*,24aS*)]-eicosahydro-5H,17H-1,23:11,13-diethano-2H,14H-[1,11]dioxacycloecosino[2,3-b:12,13-b1]dipyridine
Synonyms: Araguspongine E, XeC
MF: C₂₈H₅₀N₂O₂
FW: 446.7
Purity: ≥90%
Stability: ≥1 year at -20°C
Supplied as: A clear film



Laboratory Procedures

For long term storage, we suggest that xestospongins C (XeC) be stored as supplied at -20°C. It should be stable for at least one year.

XeC is supplied as a clear film. A stock solution may be made by dissolving the XeC in an organic solvent purged with an inert gas. XeC is freely soluble in organic solvents such as chloroform, ethyl acetate, and methyl acetate and slightly soluble in DMSO and H₂O.

XeC is a marine natural product which was first isolated from Pacific basin sponges, and noted to have vasodilatory properties.¹ Xestospongins C antagonizes the calcium-releasing action of inositol-1,4,5-trisphosphate (IP₃) at the receptor level. Inositol phosphates are important signal transduction messengers acting *via* IP₃ receptors to promote the mobilization of Ca²⁺ from intracellular stores. XeC blocks the increase in intracellular calcium in vascular smooth muscle cells completely at a concentration of 25 μM.² XeC also inhibits the sarcoplasmic reticulum Ca²⁺ ATPase pump at concentrations of 700nM.³

References

1. Nakagawa, M. and Endo, M. Structures of xestospongins A, B, C and D, novel vasodilative compounds from marine sponge, *Xestospongia exigua*. *Tetrahedron Lett.* **25(30)**, 3227-3230 (1984).
2. Gafni, J., Munsch, J.A., Lam, T.H., *et al.* Xestospongins: potent membrane permeable blockers of the inositol 1,4,5-triphosphate receptor. *Neuron* **19**, 723-733 (1997).
3. Castonguay, A. and Robitaille, R. Xestospongins C is a potent inhibitor of SERCA at a vertebrate synapse. *Cell Calcium* **32(1)**, 39-47 (2002).

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Cayman Chemical

Mailing address
1180 E. Ellsworth Road
Ann Arbor, MI
48108 USA

Phone
(800) 364-9897
(734) 971-3335

Fax
(734) 971-3640

E-Mail
custserv@caymanchem.com

Web
www.caymanchem.com

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