



CERTIFICATE of ANALYSIS

PRODUCT:	Xestospongine C, [1R-(1R*,4aR*,11R*,12aS*,13S*,16aS*,23R*,24aS*)]- eicosahydro-5H,17H-1,23:11,13-diethano-2H,14H- [1,11]dioxacycloeicosino[2,3-b:12,13-b1]dipyridine; XeC; Araguspongine E] C ₂₈ H ₅₀ N ₂ O ₂ , M.W. 446.7, CAS# [88903-69-9]
PRODUCT NUMBER:	X-1009
LOT NUMBER:	B1577
APPEARANCE:	Clear film
PURITY:	≥90%
SOLUBILITY:	Xestospongine C is freely soluble in organic solvents such as chloroform, ethyl acetate, and methyl acetate and slightly soluble in DMSO and H ₂ O.
LABORATORY PROCEDURES:	A stock solution may be made by dissolving the Xestospongine C in an organic solvent purged with an inert gas. Xestospongine C is a marine natural product which was first isolated from Pacific basin sponges, and noted to have vasodilatory properties. Xestospongine C antagonizes the calcium-releasing action of inositol-1,4,5-triphosphate (IP ₃) at the receptor level. Inositol phosphates are important signal transduction messengers acting <i>via</i> IP ₃ receptors to promote the mobilization of Ca ²⁺ from intracellular stores. Xestospongine C blocks the increase in intracellular calcium in vascular smooth muscle cells completely at a concentration

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of 25 μ M. Xestospongine C also inhibits the sarcoplasmic reticulum Ca^{2+} ATPase pump at concentrations of 700nM.

STORAGE:

For long term storage, we suggest that Xestospongine C be stored as supplied at -20°C . It will be stable for at least one year.

CAUTION: For laboratory research & scientific manufacturing use only. Not for human or drug use. The pharmacological and toxicological properties of this product have not been fully investigated. Use caution when handling. Do not use this compound if you are not fully trained or are unaware of the hazards involved.

Verified: DD

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