

Product datasheet

Xestospongine C ab120914

Overview

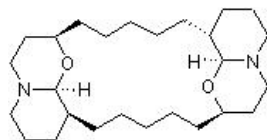
Product name	Xestospongine C
Description	Potent, selective, reversible IP ₃ receptor antagonist
Biological description	Potent, selective, reversible IP ₃ receptor antagonist (IC ₅₀ = 350 nM). Inhibits IP ₃ -mediated Ca ²⁺ release from ER and SR. 30-Fold selectivity over ryanodine receptor. Inhibits voltage-dependent Ca ²⁺ and K ⁺ channels at higher concentrations. Cell-permeable.
Purity	> 90%

Properties

Chemical 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

Molecular weight 446.72

Chemical structure



Molecular formula C₂₈H₅₀N₂O₂

CAS Number 88903-69-9

Storage instructions Store at -20°C. It is important to note that this product is reported to be light sensitive. Store in the Dark. Store under desiccating conditions.

Solubility overview Soluble in DMSO to 2 mM and in ethanol to 2 mM

Handling Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our [frequently asked questions \(FAQ\) page](#) for more details.

SMILES C1CCC[C@H]2CCCN3CCC(CCCCCC4CCCN5CCC(CC1)O[C@H]45)O[C@H]23

Source Synthetic

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