Catalog	Unit
TBI1207-10UG	10 ug
TBI1207-50UG	50 ug

## **Product Details**

Formal Name: Natural product isolated from the marine sponge Xestospongia sp. Molecular Formula:  $C_{28}H_{50}N_2O_2$ Formula Weight: 446.70 CAS Number: 88903-69-9 Purity: >97% Formulation: Lyophilized Solubility: Soluble in DMSO (up to 10 mg/ml) Storage: -20°C Stability:  $\geq$  2 years.



**Applications** 

Inhibits IP3-mediated Ca2+ release

## **Functions**

A potent and reversible inhibitor of IP3-mediated Ca2+ release, IC50 = 358 nM. Experiments with guinea-pig ileum permeabilized with alpha toxin revealed that Xestospongin C inhibits the IP3 receptor but not the ryanodine receptor in SR membranes. In intact smooth muscle cells it inhibits voltage-dependent Ca2+ and K+ currents at a concentration range similar to that at which it inhibits the IP3 receptor. It is a useful tool for probing the involvement of IP3 receptors in cellular signaling. Cell permeable.

## **Application Procedures**

First dissolved in DMSO (up to 10 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20 $^{\circ}$ C for up to 1 month.

For research use only.