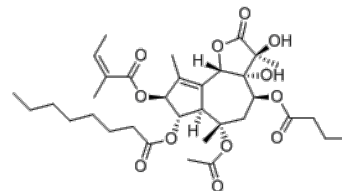


Product Name : Thapsigargin
Cat. No. : PC-60883
CAS No. : 67526-95-8
Molecular Formula : C₃₄H₅₀O₁₂
Molecular Weight : 650.76
Target : Calcium Channel
Solubility : 10 mM in DMSO



Biological Activity

Thapsigargin (G202) is a potent, selective, non-competitive inhibitor of the sarco/endoplasmic reticulum Ca²⁺ ATPase (**SERCA**), causes ER stress and induces autophagy in mammalian cells.

Thapsigargin inhibits the Ca²⁺ ATPase of rat liver ER about 100% at 170 nM, but no inhibition for skeletal muscle SR.

Thapsigargin increases the concentration of cytosolic free Ca²⁺ in sensitive cells by an acute and highly specific arrest of the endoplasmic reticulum Ca²⁺ pump.

References

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Yu M, et al. *J Biol Chem*. 1998 Feb 6;273(6):3542-6.

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Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com