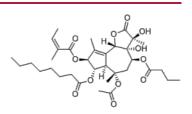


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Product Name	:	Thapsigargin
Cat. No.	:	PC-60883
CAS No.	:	67526-95-8
Molecular Formula	:	C ₃₄ H ₅₀ O ₁₂
Molecular Weight	:	650.76
Target	:	Calcium Channel
Solubility	:	10 mM in DMSO

Data Sheet

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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.

Thapsigargin also efficiently inhibits coronavirus (HCoV-229E, MERS-CoV, SARS-CoV-2) replication.

References

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Caution: Product has not been fully validated for medical applications. Lab Use Only! E-mail: tech@probechem.com