



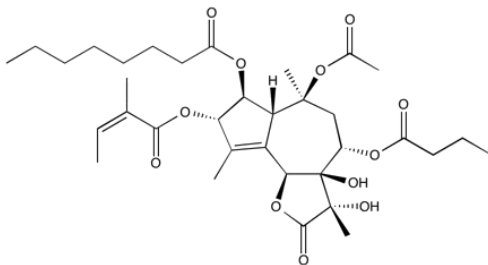
Catalog # 10-2105

Thapsigargin

CAS# 67526-95-8

Isolated from *Thapsia garganica*

Lot # X101721



Potent inhibitor of sarco-endoplasmic reticulum Ca^{2+} -ATPase¹. (IC_{50} = 30 nM) Induces endoplasmic reticulum stress and autophagy in a variety of cell lines².

Warning: highly irritating to skin and mucus membranes.

- 1) Treiman *et al.* (1998), *A tool coming of age: thapsigargin as an inhibitor of sarco-endoplasmic reticulum Ca^{2+} -ATPases*; Trends Pharmacol. Sci., **19** 131
- 2) Zhou *et al.* (2009), *Autophagy-mediated insulin receptor down-regulation contributes to endoplasmic reticulum stress-induced insulin resistance*; Mol. Pharmacol., **76** 596

PHYSICAL DATA

Molecular Weight:	650.77
Molecular Formula:	$\text{C}_{34}\text{H}_{50}\text{O}_{12}$
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 65 mg/ml) or Ethanol (up to 20 mg/ml)
Physical Description:	Colorless waxy solid / film
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 week.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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