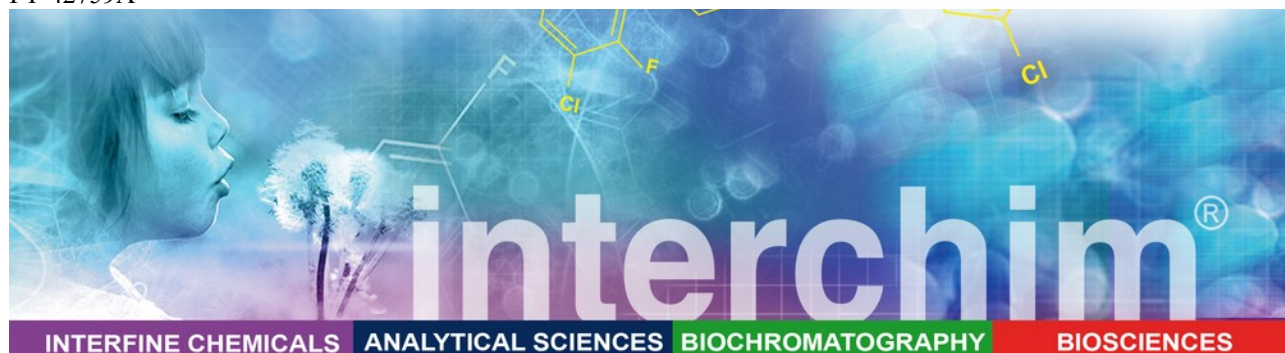


FT-42759A

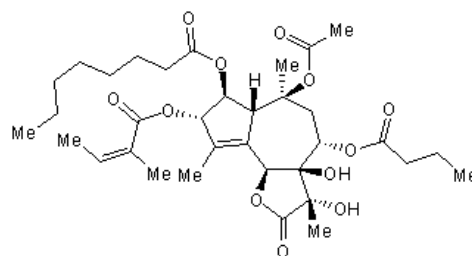


## Thapsigargin

Potent inhibitor of sarco-endoplasmic reticulum  $Ca^{2+}$ -ATPases.

### Product Description

<b>Name :</b>	<b>Thapsigargin</b> (3 <i>S</i> ,3 <i>aR</i> ,4 <i>S</i> ,6 <i>S</i> ,6 <i>AR</i> ,7 <i>S</i> ,8 <i>S</i> ,9 <i>bS</i> )-6- (Acetyloxy)- 2,3,3 <i>a</i> ,4,5,6,6 <i>a</i> ,7,8,9 <i>b</i> - decahydro-3,3 <i>a</i> -dihydroxy-3,6,9-trimethyl-8-[[[(2 <i>Z</i> )- 2-methyl-1-oxo-2-butenyl]oxy]-2-oxo-4-(1-oxobutoxy )azuleno[4,5- <i>b</i> ]furan-7-yl octanoate
<b>Catalog Number :</b>	42759A 1mg
<b>Structure :</b>	CAS [675-2695-8] $C_{34}H_{50}O_{12}$
<b>Molecular Weight :</b>	650.76
<b>Properties:</b>	<b>Solubility:</b> Soluble to 100 mM in DMSO



**Storage:** -20°C Desiccated

### Directions for use

#### Solubility & Usage Info:

This product is supplied in a sealed glass ampoule as a lyophilised solid, please refer to the Tocris catalogue for opening instructions. Lyophilised solids can be hard to visualise therefore solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved. DMSO to 100 mM

#### Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

FT-42759A

## References

- **Davidson and Varhol** Kinetics of thapsigargin- $\text{Ca}^{2+}$ -ATPase (sarcoplasmic reticulum) interaction reveals a two-step binding mechanism and picomolar inhibition. *J.Biol.Chem.* **270** :11731 (1995)
- **Treiman et al** A tool coming of age: thapsigargin as an inhibitor of sarco-endoplasmic reticulum  $\text{Ca}^{2+}$ -ATPases. *TiPS* **19** :131. (1998)
- **Yu et al** Specific substitutions at amino acid 256 of the sarcoplasmic/endoplasmic reticulum  $\text{Ca}^{2+}$  transport ATPase mediate resistance to thapsigargin in thapsigarginresistant hamster cells. *J.Biol.Chem.* **273** :3542 (1998)

## Ordering information

Catalog size quantities and prices may be found at <http://www.interchim.com>.  
Please inquire for higher quantities (availability, shipment conditions).

For any information, please ask : Uptima / Interchim; Hotline : +33(0)4 70 03 73 06

**Disclaimer :** Materials from Uptima are sold **for research use only**, and are not intended for food, drug, household, or cosmetic uses.  
Uptima is not liable for any damage resulting from handling or contact with this product.