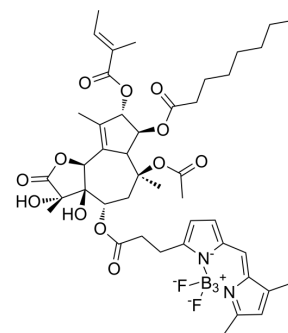


## BODIPY FL Thapsigargin

<b>Cat. No.:</b>	HY-D1608
<b>CAS No.:</b>	216571-99-2
<b>Molecular Formula:</b>	$C_{44}H_{57}B_3F_2N_2O_{12}^{2-}$
<b>Molecular Weight:</b>	876.36
<b>Target:</b>	Calcium Channel; Others
<b>Pathway:</b>	Membrane Transporter/Ion Channel; Neuronal Signaling; Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	BODIPY FL Thapsigargin is a potent green fluorescent dye. BODIPY FL Thapsigargin inhibits intracellular SERCA-type Ca <sup>2+</sup> pumps present in the sarcoplasmic/endoplasmic reticulum. BODIPY FL Thapsigargin used for investigation of thapsigargin binding sites in live cells <sup>[1][2]</sup> .
<b>In Vitro</b>	<p>Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs).</p> <p>BODIPY FL Thapsigargin<sup>[1]</sup>:</p> <ol style="list-style-type: none"> <li>1. Purified parasites are fixed with 1% formaldehyde in PBS (pH 8) for 1 h at room temperature and allows to adhere to poly-L-lysine-coated glass slides for 20 min Parasites are then permeated with 0.1% Triton X-100 for 5 min and blocked with 3% bovine serum albumin in PBS for 1 h.</li> <li>2. Parasites were incubated at room temperature with a 1:100 dilution of the primary polyclonal antibody H-300 for 1 h, followed by a 1:100 dilution of Texa Red-coupled goat anti-rabbit IgG secondary antibody, and with 0.25 μM BODIPY FL TG for 5 min.</li> <li>3. Analyze sample on a flow cytometer, fluorescence microscopy, or fluorescence microplate reader.</li> </ol> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### REFERENCES

[1]. Pérez-Gordones MC, et, al. Presence of a thapsigargin-sensitive calcium pump in Trypanosoma evansi: Immunological, physiological, molecular and structural evidences. Exp Parasitol. 2015 Dec;159:107-17.

[2]. Urbina DC, et, al. The Ca<sup>2+</sup> pump inhibitor, thapsigargin, inhibits root gravitropism in Arabidopsis thaliana. Biol Res. 2006;39(2):289-96.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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