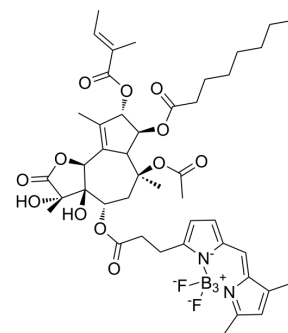


BODIPY FL Thapsigargin

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



BIOLOGICAL ACTIVITY

Description	BODIPY FL Thapsigargin is a potent green fluorescent dye. BODIPY FL Thapsigargin inhibits intracellular SERCA-type Ca ²⁺ pumps present in the sarcoplasmic/endoplasmic reticulum. BODIPY FL Thapsigargin used for investigation of thapsigargin binding sites in live cells ^{[1][2]} .
In Vitro	<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^[1]:</p> <ol style="list-style-type: none"> 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. 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. 3. Analyze sample on a flow cytometer, fluorescence microscopy, or fluorescence microplate reader. <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 Ca²⁺ pump inhibitor, thapsigargin, inhibits root gravitropism in *Arabidopsis thaliana*. *Biol Res*. 2006;39(2):289-96.

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

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