

Product Datasheet

Thapsigargin (orb2655651)

Catalog Number	orb2655651
Category	Small Molecules
Description	A potent, selective, non-competitive inhibitor of the sarco/endoplasmic reticulum Ca ²⁺ ATPase (SERCA), causes ER stress and induces autophagy in mammalian cells; inhibits the Ca ²⁺ ATPase of rat liver ER about 100% at 170 nM, but no inhibition for skeletal muscle SR; increases the concentration of cytosolic free Ca ²⁺ in sensitive cells by an acute and highly specific arrest of the endoplasmic reticulum Ca ²⁺ pump.
Target	Autophagy
Purity	>98% (HPLC)
MW	650.76
Target Areas	Autophagy
Solubility (25°C)	In Vitro: DMSO : 50 mg/mL (76.83 mM)
CAS Number	67526-95-8
Formula	C ₃₄ H ₅₀ O ₁₂
SMILES	<chem>CCCCCCCC(O[C@@H]1[C@@H](OC/C(C)=C\C)=O)C(C)=C2[C@@]1([H])[C@@](C)(OC(C)=O)C[C@H](OC(CCC)=O)[C@@]([C@@]3(O)C)(O)[C@@]2([H])OC3=O)=O</chem>
Chemical Name	(3S,3aR,4S,6S,6AR,7S,8S,9bS)-6- (Acetyloxy)-2,3,3a,4,5,6,6a,7,8,9b-decahydro-3,3a-dihydroxy-3,6,9-trimethyl-8-[[[(2Z)-2-methyl-1-oxo-2-butenyl]oxy]-2-oxo-4-(1-oxobutoxy)azuleno[4,5-b]furan-7-yl octanoate
Storage	Storage temperature: -20°C. Stability: ≥ 2 years

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Note	For research use only
Expiration Date	12 months from date of receipt.

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