

## Product Datasheet

### Thapsigargin (orb1296066)

|                            |  |
|----------------------------|--|
| <b>Catalog Number</b>      | orb1296066   |
| <b>Category</b>            | Small Molecules  |
| <b>Description</b>         | Thapsigargin is a natural SERCA inhibitor that disrupts calcium homeostasis by blocking Ca <sup>2+</sup> uptake into the ER/SR, leading to elevated cytosolic Ca <sup>2+</sup> and ER stress. It is widely used in vitro and in vivo to study apoptosis, autophagy, and ER stress signaling pathways in cancer and neurodegenerative disease research. |
| <b>Target</b>              | ATPase   |
| <b>Form/Appearance</b>     | wax  |
| <b>Purity</b>              | >98%   |
| <b>MW</b>                  | 650.77   |
| <b>Biological Activity</b> | SERCA inhibitor  |
| <b>Target Areas</b>        | SARS-CoV Apoptosis Calcium Channel   |
| <b>Solubility (25°C)</b>   | Soluble in DMSO (up to 65 mg/ml) or in Ethanol (up to 20 mg/ml).   |
| <b>CAS Number</b>          | 67526-95-8   |
| <b>Formula</b>             | C <sub>34</sub> H <sub>50</sub> O <sub>12</sub>  |
| <b>SMILES</b>              | <chem>O(C(CCCCCC)=O)[C@H]1[C@@]2(C([C@]3([C@](O)([C@@H](OC(CCC)=O)[C@@]2(OC(C)=O)C)[C@](C)(O)C(=O)O3)[H])=C(C)[C@H]1OC/C(=C\C)/C=O)[H]</chem>  |
| <b>Chemical Name</b>       | Isolated from Thapsia garganica  |
| <b>Storage</b>             | -20°C  |
| <b>Note</b>                | For research use only  |

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**Expiration Date**

12 months from date of receipt.

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