

## Maurocalcine

## Chemical Properties

CAS No. :	269745-22-4
Formula:	C156H270N56O46S6
Molecular Weight:	3858.55
Storage:	Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

## Biological Description

Description	Maurocalcine is a cell-permeable agonist for ryanodine receptor (RyR) subtypes 1, 2, and 3. It enhances [3 H]ryanodine binding to RyR1 with an EC50 of 2558 nM and demonstrates an apparent affinity for RyR2 at 14 nM. This compound is suitable for in vivo cell tracking and other cellular imaging applications [1] [2] [3].
Targets(IC50)	Calcium Channel
In vitro	Maurocalcine (100 nM, 24 hours) enhances the sensitivity of RyR2 to activating [Ca <sup>2+</sup> ] <sub>i</sub> while diminishing its sensitivity to inhibitory [Ca <sup>2+</sup> ] <sub>i</sub> [1]. There is no cytotoxicity observed in HEK293 cells when treated with Maurocalcine (5 μM for 4 hours/24 hours) [3].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2592 mL	1.2958 mL	2.5916 mL
5 mM	0.0518 mL	0.2592 mL	0.5183 mL
10 mM	0.0259 mL	0.1296 mL	0.2592 mL
50 mM	0.0052 mL	0.0259 mL	0.0518 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

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