

Maurocalcine TFA

Chemical Properties

CAS No. :

Formula: C156H270N56O46S6.xC2HF3O2

Molecular Weight:

Keep away from moisture

Storage:

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	Maurocalcine TFA acts as an agonist for ryanodine receptor (RyR) channels 1, 2, and 3, demonstrating cell-penetrating capabilities. It induces binding of [3H]ryanodine to RyR1 with an EC50 of 2558 nM and exhibits an apparent affinity of 14 nM for RyR2. This compound is applicable for in vivo cell tracking or other cellular imaging techniques.
Targets(IC50)	Calcium Channel
In vitro	Maurocalcine (100 nM, 24 hours) enhances the sensitivity of RyR2 to activation by [Ca2+]i and reduces its sensitivity to inhibition by [Ca2+]i. Additionally, maurocalcine exhibits no cytotoxic effects on HEK293 cells at a concentration of 5 µM, whether applied for 4 hours or 24 hours.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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