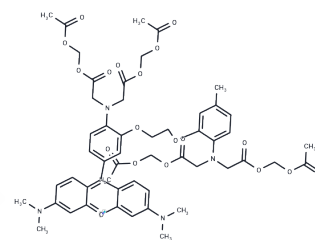


Rhod-2 AM

Chemical Properties

CAS No. :	145037-81-6
Formula:	C52H59BrN4O19
Molecular Weight:	1123.94
Appearance:	no data available
Storage:	keep away from direct sunlight
	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Rhod-2 AM is a fluorescent probe of the mitochondrion with λ_{ex} of 552 nm and λ_{em} of 581 nm.
Targets(IC50)	Others
In vitro	Inhibition of mitochondrial Ca^{2+} uptake by ruthenium red (RR) or DIDS in IMR5 cells infected with poliovirus (PV) is illustrated following fluorescence staining with Rhod-2 AM at 6 h p.i.[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.8897 mL	4.4486 mL	8.8973 mL
5 mM	0.1779 mL	0.8897 mL	1.7795 mL
10 mM	0.089 mL	0.4449 mL	0.8897 mL
50 mM	0.0178 mL	0.089 mL	0.1779 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.

Reference

- Brisac C, et al. Calcium flux between the endoplasmic reticulum and mitochondrion contributes to poliovirus-induced apoptosis. J Virol. 2010 Dec;84(23):12226-35.
- Li C, Pan Y, Tan Y, et al. PINK1-Dependent Mitophagy Reduced Endothelial Hyperpermeability and Cell Migration Capacity Under Simulated Microgravity. Frontiers in cell and developmental biology. 2022, 10.

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