

CD649.2

Chemical Properties

CAS No. :

Formula: C42H52N6O8Si

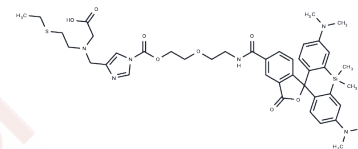
Molecular Weight: 829.05

Keep away from direct sunlight

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	CD649.2 is a responsive fluorescent probe specifically designed for Cu(II) detection, exhibiting selectivity for metals and oxidation states. It allows for the monitoring of intracellular active Cu(II) levels via live-cell confocal microscopy. This probe provides fundamental insights into the existence and regulation of active Cu(II) levels, such as identifying divalent metal transporter 1 (DMT1) as an importer of Cu(II), observing the increase of active Cu(II) under oxidative stress induced by glutathione depletion, and examining the interaction between increased active Cu(II) and decreased active Cu(I) caused by cancerous mutations that promote oxidative stress.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.2062 mL	6.031 mL	12.062 mL
5 mM	0.2412 mL	1.2062 mL	2.4124 mL
10 mM	0.1206 mL	0.6031 mL	1.2062 mL
50 mM	0.0241 mL	0.1206 mL	0.2412 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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