

Sulfidefluor-7 AM

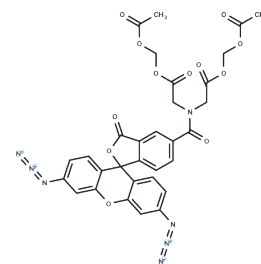
Chemical Properties

CAS No. : 1416872-50-8

Formula: C₃₁H₂₃N₇O₁₂

Molecular Weight: 685.55

Storage: Store at low temperature, Keep away from direct sunlight
 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	Sulfidefluor-7 AM (SF7-AM) is an effective and cell permeable fluorescent probe for hydrogen sulfide (h ₂ s). Sulfidefluor-7 AM contains acetoxy-methyl ester, which is hydrolyzed intracellular to capture the probe.
Targets(IC50)	Others
Cell Research	<p>Cellular H₂S measurement</p> <p>Operation steps</p> <ol style="list-style-type: none"> 1. Cell staining: Culture cells in a flat-bottom 96-well plate to an appropriate state, add SF7-AM (1 μM), and incubate at 37°C for 30 minutes. 2. Wash the wells with Hanks balanced salt solution to remove residual dye and observe under an inverted wide-field fluorescence microscope. <p>The above information is based on published literature. Experimental procedures should be appropriately modified to meet specific research demands.</p>

Solubility Information

Solubility	DMSO: 12.3 mg/mL (17.94 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4587 mL	7.2934 mL	14.5868 mL
5 mM	0.2917 mL	1.4587 mL	2.9174 mL
10 mM	0.1459 mL	0.7293 mL	1.4587 mL
50 mM	0.0292 mL	0.1459 mL	0.2917 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.

Reference

Candela J, et al. Hydrogen sulfide depletion contributes to microvascular remodeling in obesity. *Am J Physiol Heart Circ Physiol*. 2016 May 1;310(9):H1071-80.

Ishkaeva R A, Lopukhov L V, Nizamov I S, et al. Generation of Glutathione Persulfide and Optimization of Its Mass-Spectrometric Determination. *Journal of Analytical Chemistry*. 2024, 79(11): 1608-1615.

Candela J, et al. Hydrogen sulfide depletion contributes to microvascular remodeling in obesity. *Am J Physiol Heart Circ Physiol*. 2016;310(9):H1071-H1080.

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