

Sulfane Sulfur Probe 4

Chemical Properties

CAS No. : 1810731-98-6

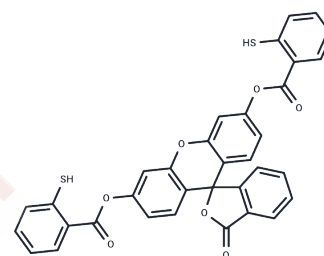
Formula: C₃₄H₂₀O₇S₂

Molecular Weight: 604.60

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	Sulfane Sulfur Probe 4 (SSP4) serves as a fluorescent probe targeting sulfane sulfur species, encompassing hydrogen sulfide-derived polysulfides, hydropersulfides, and persulfides generated endogenously. Upon interacting with these species, SSP4 undergoes a nucleophilic attack, leading to fluorescein production, characterized by 494/515 nm excitation/emission peaks, along with the generation of two 1,2-benzodithiol-3-one molecules. This compound has been instrumental in localizing H ₂ S ₃ within primary mouse neurons and identifying polysulfides in <i>L. japonicus</i> seedling roots.
Targets(IC ₅₀)	Others

Solubility Information

Solubility	DMSO: Soluble Chloroform: Soluble DMF: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.654 mL	8.2699 mL	16.5399 mL
5 mM	0.3308 mL	1.654 mL	3.308 mL
10 mM	0.1654 mL	0.827 mL	1.654 mL
50 mM	0.0331 mL	0.1654 mL	0.3308 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

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481