

CAY10731

Chemical Properties

CAS No. : 2119597-33-8

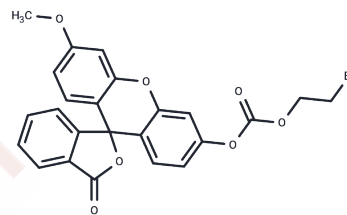
Formula: C₂₄H₁₇BrO₇

Molecular Weight: 497.297

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	CAY10731 is a fluorescent probe for hydrogen sulfide (H ₂ S).[1] Upon reaction with H ₂ S, fluorescein (FITC) is released and its fluorescence can be used to detect H ₂ S. FITC displays excitation/emission maxima of 485/535 nm, respectively. CAY10731 is selective for H ₂ S over glutathione (GSH), cysteine, H ₂ O ₃ ⁻ , SO ₃ ⁻ , and H ₂ O ₂ as well as tBuO and OH radicals. It has been used to detect H ₂ S in rat hippocampal slices and nematodes.
Targets(IC50)	Others

Solubility Information

Solubility	DMF: 30 mg/mL (60.33 mM), Sonication is recommended. DMSO: 30 mg/mL (60.33 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	2.0109 mL	10.0543 mL	20.1086 mL
5 mM	0.4022 mL	2.0109 mL	4.0217 mL
10 mM	0.2011 mL	1.0054 mL	2.0109 mL
50 mM	0.0402 mL	0.2011 mL	0.4022 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

Reja, S.I., Sharma, N., Gupta, M., et al. A highly selective fluorescent probe for detection of hydrogen sulfide in living systems: In vitro and in vivo applications. Chemistry 23(41), 9872-9878 (2017).

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