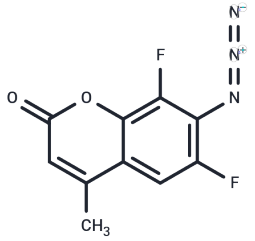
Data Sheet (Cat.No.T37720)

TargetMol

Difluorinated H2S Fluorescent Probe 1

Chemical Properties



CAS No. : 2103919-91-9

Formula: C10H5F2N3O2

Molecular Weight: 237.166

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	Difluorinated H2S probe 1 is a fluorescent probe for hydrogen sulfide (H2S).1It selectively fluoresces in the presence of H2S over Zn2+, Fe3+, S2O32-, ClO-, SO32-, H2O2, NO2-, cysteine (Cys), homocysteine (Hcy), and glutathione (GSH) when used at a concentration of 1 μM. Difluorinated H2S probe 1 displays excitation/emission maxima of 365/450 nm, respectively.
Targets(IC50)	Others

Solubility Information

Solubility	Ethanol: 1 mg/mL (4.22 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.2164 mL	21.0819 mL	42.1638 mL
5 mM	0.8433 mL	4.2164 mL	8.4328 mL
10 mM	0.4216 mL	2.1082 mL	4.2164 mL
50 mM	0.0843 mL	0.4216 mL	0.8433 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

Zhang, J., Gao, Y., Kang, X., et al.o,o-Difluorination of aromatic azide yields a fast-response fluorescent probe for H2S detection and for improved bioorthogonal reactionsOrg. Biomol. Chem.15(19)4212-4217(2017)

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