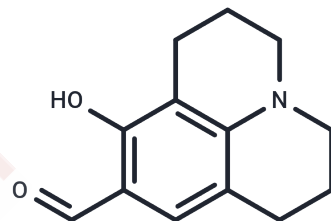


8-Hydroxyjulolidine-9-carboxaldehyde

Chemical Properties

CAS No. :	63149-33-7
Formula:	C ₁₃ H ₁₅ NO ₂
Molecular Weight:	217.26
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	8-Hydroxyjulolidine-9-carboxaldehyde (9-Formyl-8-hydroxyjulolidine) serves as a fluorescent probe, highly selective for hydrogen sulfide (S ₂ ⁻) and silicates (SiO ₃ ²⁻). It operates by inhibiting the mechanism of intramolecular charge transfer (ICT), resulting in significant fluorescence enhancement in the presence of weak acid ions. This compound holds potential for fluorescence imaging studies of hydrogen sulfide within living cells.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.6028 mL	23.0139 mL	46.0278 mL
5 mM	0.9206 mL	4.6028 mL	9.2056 mL
10 mM	0.4603 mL	2.3014 mL	4.6028 mL
50 mM	0.0921 mL	0.4603 mL	0.9206 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

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