

Cobalt(II) ions probe 1

Chemical Properties

CAS No. : 3047612-66-5

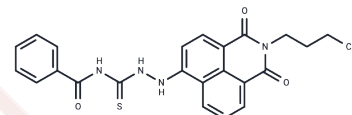
Formula: C₂₄H₂₂N₄O₃S

Molecular Weight: 446.521

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	Cobalt(II) ions probe 1 (Compound L) is a fluorescent sensor designed to detect Co ²⁺ in biological environments. It selectively binds with Co ²⁺ even in the presence of other metal ions, exhibiting a specific response (Ex: 380 nm).
Targets(IC50)	Others
In vitro	Cobalt(II) ions probe 1 exhibits minimal fluorescence in solution ("off" state). Upon the addition of Co ²⁺ , coordination between Co ²⁺ and Cobalt(II) ions probe 1 inhibits PET and ICT processes, resulting in a strong localized emission in the blue wavelength region ("on" state).

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2395 mL	11.1977 mL	22.3954 mL
5 mM	0.4479 mL	2.2395 mL	4.4791 mL
10 mM	0.224 mL	1.1198 mL	2.2395 mL
50 mM	0.0448 mL	0.224 mL	0.4479 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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