

PMQA

Chemical Properties

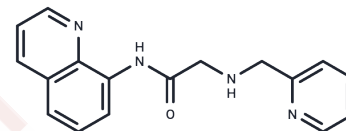
CAS No. : 1263820-18-3

Formula: C17H16N4O

Molecular Weight: 292.34

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	PMQA (Zn-green), an 8-aminoquinoline-based ratiometric fluorescent sensor, exhibits an 85 nm redshift in emission upon Zn ²⁺ induction. This cell membrane-permeable probe effectively images Zn ²⁺ within living cells [1].
Targets(IC50)	Others
In vitro	PMQA, when incubated (20 μM) for 1 hour, exhibits weak green fluorescence attributed to its high affinity for zinc, capturing intracellular zinc from native ligands [1]. The Zn ²⁺ response of PMQA can be reversed by N,N,N',N'-tetrakis(2-pyridylmethyl) ethylenediamine (TPEN) or EDTA [1]. PMQA stock solution (0.1 mM in Tris Buffer) shows no significant degradation when stored at room temperature for a week, as confirmed by HPLC analysis [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4207 mL	17.1034 mL	34.2067 mL
5 mM	0.6841 mL	3.4207 mL	6.8413 mL
10 mM	0.3421 mL	1.7103 mL	3.4207 mL
50 mM	0.0684 mL	0.3421 mL	0.6841 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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