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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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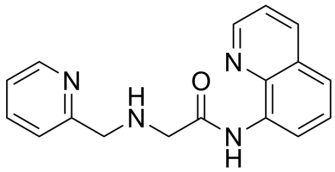
PMQA

Cat. No.:	HY-D1264
CAS No.:	1263820-18-3
Molecular Formula:	$C_{17}H_{16}N_4O$
Molecular Weight:	292.34
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PMQA (Zn-green), an 8-aminoquinoline-based ratiometric fluorescent sensor, demonstrates the Zn^{2+}-induced redshift of emission (85 nm). PMQA (Zn-green) is a cell membrane-permeable probe and suitable for imaging Zn^{2+} in living cells[1].
In Vitro	After incubation with PMQA (20 μM) for 1 h, weak green fluorescence appeared, presumably caused by the probe capturing intracellular zinc from its native ligands since PMQA has high affinity for zinc[1]. The response of PMQA to Zn^{2+} can be reversed by N,N,N',N'-tetrakis(2-pyridylmethyl)ethylenediamine (TPEN) or EDTA[1]. When the stock solution of PMQA (0.1 mM in Tris Buffer) is kept at room temperature for a week, there is no significant loss of PMQA determined by HPLC analysis[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Liangwei Zhang, et al. 8-Aminoquinoline-based ratiometric zinc probe: unexpected binding mode and its application in living cells. Bioorg Med Chem Lett. 2013 Jun 15;23(12):3511-4.

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