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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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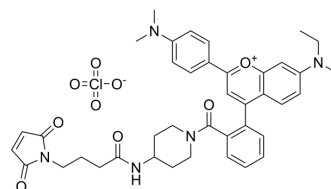
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FM-red

Cat. No.:	HY-D1260
Molecular Formula:	C ₄₁ H ₄₆ ClN ₅ O ₉
Molecular Weight:	788.29
Target:	Fluorescent Dye
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



BIOLOGICAL ACTIVITY

Description	FM-red (PSH-red) is a red-emitting and environment-sensitive probe for selectively detecting and labeling protein thiols. FM-red can be used to image protein sulfhydryl groups in live cells and in vivo. FM-red also could be used to measure of the redox states of thioredoxin (Trx) ^[1] .
In Vitro	FM-red (10 μM; 30 min) is suitable for imaging protein thiols in HeLa cells ^[1] . FM-red (20 μM; 48 h) has no significant cytotoxicity in HeLa cells ^[1] . FM-red possesses a long emission wavelength (~655 nm) and fast response (~10 min) by binding to protein thiols ^[1] . FM-red exhibits time- and concentration-dependent fluorescence response to bovine serum albumin (BSA) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	FM-red (10 μM; 30 min) could be used to image protein thiols in zebrafishes ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Hu G, et, al. Depletion of protein thiols and the accumulation of oxidized thioredoxin in Parkinsonism disclosed by a red-emitting and environment-sensitive probe. J Mater Chem B. 2019 Apr 28;7(16):2696-2702.

Caution: Product has not been fully validated for medical applications. For research use only.

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