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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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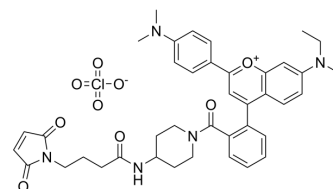
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FM-red

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)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (63.43 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		1.2686 mL	6.3428 mL	12.6857 mL
	5 mM		0.2537 mL	1.2686 mL	2.5371 mL
	10 mM		0.1269 mL	0.6343 mL	1.2686 mL

Please refer to the solubility information to select the appropriate solvent.

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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