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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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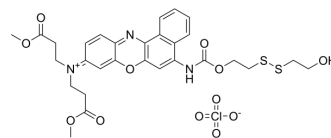
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Trx-red

Cat. No.:	HY-D1254
CAS No.:	2368978-96-3
Molecular Formula:	C ₂₉ H ₃₂ ClN ₃ O ₁₂ S ₂
Molecular Weight:	714.16
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 (70.01 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.4002 mL	7.0012 mL	14.0025 mL
5 mM	0.2800 mL	1.4002 mL	2.8005 mL
10 mM	0.1400 mL	0.7001 mL	1.4002 mL

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

BIOLOGICAL ACTIVITY

Description

Trx-red (NBL-SS perchlorate) is a red-emitting fluorescent probe derivatized from the nile blue fluorophore. Trx-red is used for selectively imaging thioredoxin (Trx) in live cells and in vivo ($\lambda_{ex}=615$ nm, $\lambda_{em}=661$ nm)^[1].

In Vitro

Trx-red (NBL-SS) displayed multiple favorable properties, such as red emission, fast response, and high fluorescence signal. Thioredoxin (Trx) is a ubiquitous redox-regulating protein essentially involved in cell growth, differentiation, and death^[1]. When HeLa cells are incubated with Trx-red (NBL-SS; 5 μ M; 0-30 min), a clear time-dependent increase of the fluorescence is observed^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Trx-red (NBL-SS; 10 μ M; 30 min) is also suitable to image thioredoxin in 6 day-old zebrafish larvae^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

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