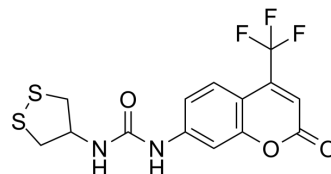


Fast-TRFS

Cat. No.:	HY-D1252
CAS No.:	2966536-18-3
Molecular Formula:	C ₁₄ H ₁₁ F ₃ N ₂ O ₃ S ₂
Molecular Weight:	376.37
Target:	Fluorescent Dye
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (265.70 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	2.6570 mL	13.2848 mL	26.5696 mL
		5 mM	0.5314 mL	2.6570 mL	5.3139 mL
	10 mM	0.2657 mL	1.3285 mL	2.6570 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (6.64 mM); Suspended solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	Fast-TRFS is a selective and superfast fluorogenic probe of thioredoxin reductase (TrxR). Fast-TRFS can be used for imaging TrxR activity in live cells ^[1] .
In Vitro	Fast-TRFS reaches the maximal fluorescence signal within 1 min incubated with TCEP, and within 5 min incubated with the TrxR enzyme ^[1] . Fast-TRFS (10 μM; 2-60 min) appears the blue fluorescence signal within 2 min in HeLa cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Antioxidants (Basel). 2022 Feb 13;11(2):377.

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- Microbiol Resour Announc. 2022 May 13;261:127070.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Li X, et, al. A fast and specific fluorescent probe for thioredoxin reductase that works via disulphide bond cleavage. Nat Commun. 2019 Jun 21;10(1):2745.

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

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