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Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

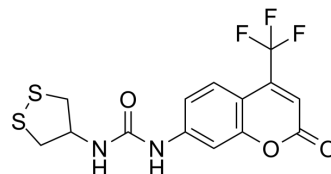
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

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)																													
	Preparing Stock Solutions	<table border="1"> <thead> <tr> <th>Solvent</th> <th>Mass</th> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>Concentration</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1 mM</td> <td></td> <td>2.6570 mL</td> <td>13.2848 mL</td> <td>26.5696 mL</td> </tr> <tr> <td>5 mM</td> <td></td> <td>0.5314 mL</td> <td>2.6570 mL</td> <td>5.3139 mL</td> </tr> <tr> <td>10 mM</td> <td></td> <td>0.2657 mL</td> <td>1.3285 mL</td> <td>2.6570 mL</td> </tr> </tbody> </table>	Solvent	Mass	1 mg	5 mg	10 mg	Concentration					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			
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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.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA