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## Product Data Sheet

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Product Name: Fast-TRFS

Cat. No.: GC61558

### Chemical Properties

Cas. No. 2966536-18-3

SMILES O=C1OC(C=C(C=C2)NC(NC3CSSC3)=O)=C2C(C(F)(F)F)=C1

Formula C14H11F3N2O3S2 M.Wt 376.37

Solubility DMSO : 100 mg/mL (265.70 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

### Background

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].

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].

[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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