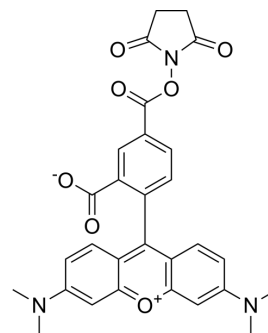


5-TAMRA-SE

Cat. No.:	HY-D0048
CAS No.:	150810-68-7
Molecular Formula:	C ₂₉ H ₂₅ N ₃ O ₇
Molecular Weight:	527.52
Target:	Fluorescent Dye
Pathway:	Others
Storage:	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 5 mg/mL (9.48 mM; Need ultrasonic and warming)																					
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="4">Preparing Stock Solutions</td> <td>1 mM</td> <td>1.8957 mL</td> <td>9.4783 mL</td> <td>18.9566 mL</td> </tr> <tr> <td>5 mM</td> <td>0.3791 mL</td> <td>1.8957 mL</td> <td>3.7913 mL</td> </tr> <tr> <td>10 mM</td> <td>---</td> <td>---</td> <td>---</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	Preparing Stock Solutions	1 mM	1.8957 mL	9.4783 mL	18.9566 mL	5 mM	0.3791 mL	1.8957 mL	3.7913 mL	10 mM	---	---	---
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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% DMF >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1 mg/mL (1.90 mM); Clear solution																					

BIOLOGICAL ACTIVITY

Description	5-TAMRA-SE is an amine-reactive fluorescent agent, its conjugates yield bright, pH-insensitive orange-red fluorescence (approximate excitation/emission maxima ~546/579) with good photostability.
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CUSTOMER VALIDATION

- Theranostics. 2019 Feb 28;9(6):1580-1598.
- ACS Infect Dis. 2019 Jun 14;5(6):863-872.

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REFERENCES

- [1]. Kierzek R, et al. 5'-Amino Pyrene Provides a Sensitive, Nonperturbing Fluorescent Probe of RNA Secondary and Tertiary Structure Formation. *J Am Chem Soc* (1993) 115:4985-4985
- [2]. Schmidt T, et al. Local Stoichiometries Determined by Counting Individual Molecules. *Anal Chem* (1996) 68:4397-4397
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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