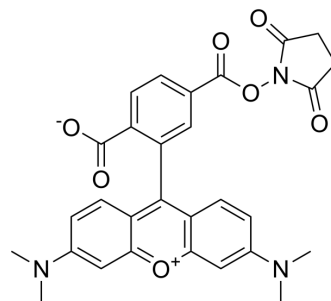


## 6-TAMRA-SE

|                           |  |
|---------------------------|--|
| <b>Cat. No.:</b>          | HY-D0049   |
| <b>CAS No.:</b>           | 150810-69-8  |
| <b>Molecular Formula:</b> | C <sub>29</sub> H <sub>25</sub> N <sub>3</sub> O <sub>7</sub>  |
| <b>Molecular Weight:</b>  | 527.52   |
| <b>Target:</b>            | DNA Stain  |
| <b>Pathway:</b>           | Cell Cycle/DNA Damage  |
| <b>Storage:</b>           | -20°C, sealed storage, away from moisture and light<br>* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light) |



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 83.33 mg/mL (157.97 mM)  
\* "≥" means soluble, but saturation unknown.

|                              | Solvent<br>Concentration | Mass      |           |            |
|------------------------------|--------------------------|-----------|-----------|------------|
|                              |                          | 1 mg      | 5 mg      | 10 mg      |
| Preparing<br>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                    | 0.1896 mL | 0.9478 mL | 1.8957 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 (4.74 mM); Suspended solution; Need ultrasonic

### BIOLOGICAL ACTIVITY

#### Description

6-TAMRA-SE (6-TAMRA-NHS ester) is a fluorescent dye carrying the amine reactive group. 6-TAMRA-SE is one of the traditional fluorophores used for automated DNA sequencing<sup>[1][2][3]</sup>.

#### In Vitro

6-TAMRA-SE (6-TAMRA-NHS ester) is an amine-reactive form of tetramethylrhodamine. 6-TAMRA-SE (soluble in DMF and DMSO, absorption=546, emission=576 measured in MeOH =9.5×10<sup>4</sup>=9.5×10<sup>4</sup>)<sup>[1][3]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### CUSTOMER VALIDATION

- ACS Infect Dis. 2019 Jun 14;5(6):863-872.

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See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

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- [1]. Wang Y, et al. RNA molecules that specifically and stoichiometrically bind aminoglycoside antibiotics with high affinities. *Biochemistry*. 1996 Sep 24;35(38):12338-46.
- [2]. Tessmar J, et al. Toward the development of biomimetic polymers by protein immobilization: PEGylation of insulin as a model reaction. *Tissue Eng*. 2004;10(3-4):441-453.
- [3]. Thomas TP, et al. Investigation of tumor cell targeting of a dendrimer nanoparticle using a double-clad optical fiber probe. *J Biomed Opt*. 2008;13(1):014024.
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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](mailto:tech@MedChemExpress.com)

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