



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



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

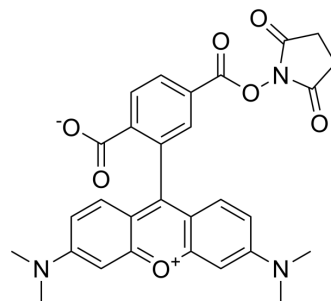
[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

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## 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 * 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.

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	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