

Certificate of Analysis

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Product Name: 5-TAMRA SE

Catalog No.: 5441

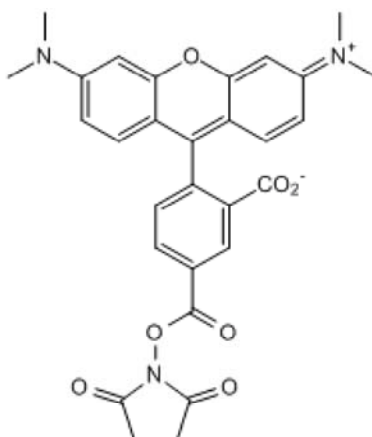
Batch No.: 1

CAS Number: 150810-68-7

IUPAC Name: 5-Carboxytetramethylrhodamine succinimidyl ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₉ H ₂₅ N ₃ O ₇
Batch Molecular Weight:	527.52
Physical Appearance:	Dark red solid
Solubility:	Acetonitrile to 5 mM DMF to 100 mM DMSO to 50 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 99.9% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Batch No.: 1

CAS Number: 150810-68-7

IUPAC Name: 5-Carboxytetramethylrhodamine succinimidyl ester

Description:

Fluorescent probe for DNA and RNA; amine-reactive. Also shown to stain telomeres. Nuclease resistant and nuclei permeable. Excitation/emission λ ~545/580 nm.

Physical and Chemical Properties:

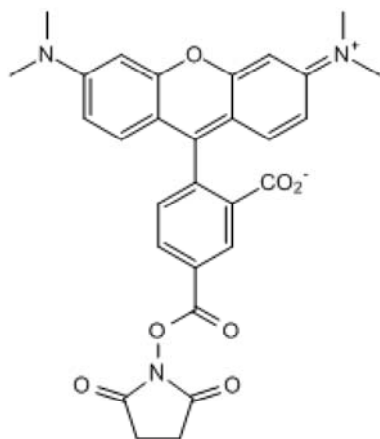
Batch Molecular Formula: C₂₉H₂₅N₃O₇

Batch Molecular Weight: 527.52

Physical Appearance: Dark red solid

Minimum Purity: >95%

Batch Molecular Structure:



Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

Acetonitrile to 5 mM

DMF to 100 mM

DMSO to 50 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Hirata *et al* (2014) Structural evaluation of tandem hairpin pyrrole-imidazole polyamides recognizing human telomeres. *J.Am.Chem.Soc.* **136** 11546. PMID: 25036716.

Kvach *et al* (2009) Practical synthesis of isomerically pure 5- and 6-carboxytetramethylrhodamines, useful dyes for DNA probes. *Bioconjug. Chem.* **20** 1673. PMID: 19606815.

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