

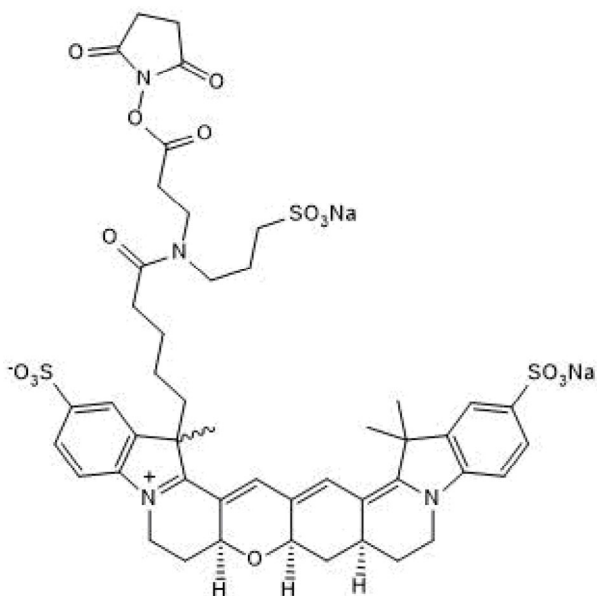
Product Name: Cy5B-trisulfo, NHS

Catalog No.: 7394

Batch No.: 1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄₇H₅₂N₄Na₂O₁₅S₃
Batch Molecular Weight: 1055.11
Physical Appearance: Blue solid
Storage: Store at -20°C
Batch Molecular Structure:



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

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Product Name: Cy5B-trisulfo, NHS

Catalog No.: 7394

1

Description:

Key information: Cy5B-trisulfo, NHS is a far-red fluorescent dye; supplied with an NHS ester reactive group for the labeling of primary amines. Particularly useful for smFRET experiments to reduce blinking and bleaching artefacts and maintain correct mean FRET efficiencies. Application: FRET, smFRET, FLIM, TIRF, and super resolution microscopy (SRM) techniques, including dSTORM. Provides enhanced spatial resolution in dSTORM experiments. Does not provide efficient blinking in conventional high-thiol dSTORM buffers; instead, sodium borohydride (NaBH₄) addition is required following which SMLM experiments can be performed in PBS. Prop... Please see product specific page on www.tocris.com for full description.

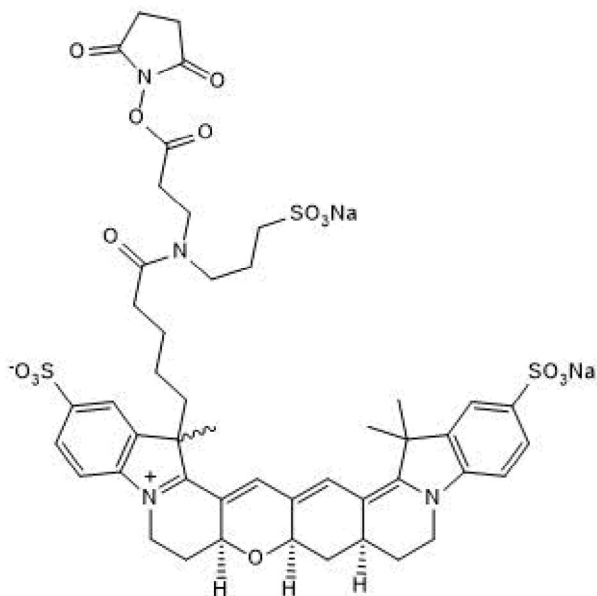
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References:

Eiring *et al* (2021) Targetable conformationally restricted Cyanines enable photon-count-limited applications. *Angew.Chem.Int.Ed.Engl.* **60** 26685. PMID: 34606673.

Wäldchen *et al* (2020) Whole-cell imaging of plasma membrane receptors by 3D lattice light-sheet dSTORM. *Nat.Commun.* **11** 887. PMID: 32060305.

Storage: Store at -20°C. This product is packaged under an inert atmosphere.

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:

This product is supplied in lyophilized form. It may appear as a solid, gel or film and be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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.

Other Information:

We certify that this product meets our quality release criteria

Licensing Information:

Sold under license from the National Institute of Health

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