

**Product Name:** Janelia Fluor® 570, NHS ester

**Catalog No.:** 8983

**Batch No.:** 1

**IUPAC Name:** 2-(3-(Azetidin-1-ium-1-ylidene)-6-(azetidin-1-yl)-3*H*-thioxanthen-9-yl)-4-(((2,5-dioxopyrrolidin-1-yl)oxy)carbonyl)benzoate trifluoroacetate

**1. PHYSICAL AND CHEMICAL PROPERTIES**

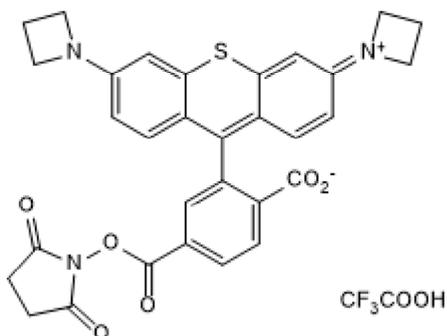
**Batch Molecular Formula:** C<sub>31</sub>H<sub>25</sub>N<sub>3</sub>O<sub>6</sub>S.CF<sub>3</sub>CO<sub>2</sub>H

**Batch Molecular Weight:** 681.64

**Physical Appearance:** Purple film

**Storage:** Store at -20°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 89.5% purity at 580 nm

**Mass Spectrum:** Consistent with structure

**UV Spectrum:** Consistent with structure

**λ<sub>max</sub>:** 576 nm (PBS)

**λ<sub>ex</sub>:** 577 nm (PBS)

**λ<sub>em</sub>:** 599 nm (PBS)

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

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**Description:**

Key information: Janelia Fluor<sup>®</sup> 570, NHS ester is an orange photosensitizer for proximity labeling experiments; supplied with an NHS ester reactive for the labeling of primary amines. Suitable for live cell applications. Upon absorption of light energy, photosensitizers in the triplet excited state interact with molecular oxygen resulting in the formation of singlet oxygen and other ROS that can be leveraged to manipulate or interrogate biological systems. Used for: proximity labeling experiments. Application: photosensitizer-dependent oxidation and capture by amine (POCA) platforms reporting intracellular interactomes for both protei... Please see product specific page on www.tocris.com for full description.

**Physical and Chemical Properties:**

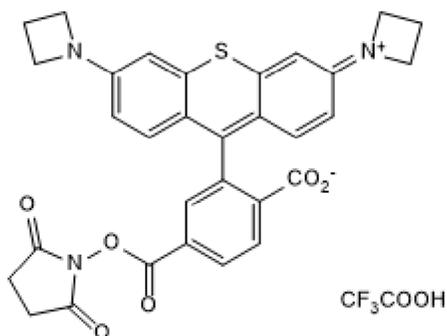
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Batch Molecular Weight: 681.64

Physical Appearance: Purple film

**Minimum Purity:** ≥85%

**Batch Molecular Structure:**



**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.

**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.

**Licensing Information:**

Sold under license from the Howard Hughes Medical Institute, Janelia Research Campus

**References:**

**Becker et al** (2026) Photosensitizer proximity labeling captures the lipid and protein interactomes. Nat.Chem.Biol.. PMID: 41652064.

**Binns et al** (2020) Rational design of bioavailable photosensitizers for manipulation and imaging of biological systems. Cell.Chem.Bio. 27 1063. PMID: 32698018.

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