



Certificate of Analysis

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Product Name: Janelia Fluor® 635, NHS ester

Catalog No.: 6419

Batch No.: 3

IUPAC Name:

1-[10-[2-Carboxy-5-[[(2,5-dioxo-1-pyrrolidinyl)oxy] carbonyl] phenyl]-9, 9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-dimethyl-7-[1-(3-fluoroazetidin

silaanthracen-2(9H)-ylidene]-3-fluoroazetidinium, inner salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₃H₂₉F₂N₃O₆Si

Batch Molecular Weight: 629.69 **Physical Appearance:** Yellow solid

Solubility: DMSO to 100 mM Storage: Store at -20°C

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 97.9% purity at 647 nm

 1 H NMR:Consistent with structureMass Spectrum:Consistent with structureUV Spectrum:Consistent with structure λ_{max} :648 nm (EtOH + 0.1% TFA) λ_{ex} :649 nm (EtOH + 0.1% TFA) λ_{em} :668 nm (EtOH + 0.1% TFA)

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

Rest of World

Product Information

Print Date: Dec 2nd 2025

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Product Name: Janelia Fluor® 635, NHS ester Catalog No.: 6419 Batch No.: 3

IUPAC Name: 1-[10-[2-Carboxy-5-[[(2,5-dioxo-1-pyrrolidinyl)oxy]carbonyl]phenyl]-9,9-dimethyl-7-[1-(3-fluoroazetidinyl)]-9-

silaanthracen-2(9H)-ylidene]-3-fluoroazetidinium, inner salt

Description:

Key Information: Janelia Fluor® 635, NHS ester is a red fluorogenic fluorescent dye; supplied with an NHS ester reactive group for the labeling of primary amines. Suitable for live cell imaging. Application: Suitable for flow cytometry, confocal microscopy, super resolution microscopy (SRM) techniques including dSTORM (in both live and fixed cells). Cell permeable. Properties and Photophysical Data: NHS ester can be converted to relevant substrate for use in self-labeling tag systems, e.g. HaloTag® and SNAP-tag®. Excitation and emission maxima (λ) are 635 nm and 652 nm, respectively; quantum yield = 0.56; extinction ... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

Batch Molecular Formula: C₃₃H₂₉F₂N₃O₆Si

Batch Molecular Weight: 629.69 Physical Appearance: Yellow solid

Minimum Purity: ≥95%

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.

Solubility & Usage Info:

DMSO to 100 mM

To measure the absorbance spectrum of this dye we recommend the following solvent: ethanol or trifluoroethanol plus 0.1% TFA.

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:

Zheng et al (2019) Rational design of fluorogenic and spontaneously blinking labels for super-resolution imaging. ACS Cent.Sci. **5** 1602. PMID: 31572787.

Grimm et al (2017) A general method to fine-tune fluorophores for live-cell and in vivo imaging. Nat.Methods 14 987. PMID: 28869757.

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