

Product Name: Janelia Fluor[®] 549, Maleimide

Catalog No.: 6500

Batch No.: 4

IUPAC Name: 2-(3-(Azetidin-1-ium-1-ylidene)-6-(azetidin-1-yl)-3*H*-xanthen-9-yl)-4-((2-(2,5-dioxo-2,5-dihydro-1*H*-pyrrol-1-yl)ethyl)carbamoyl)benzoate trifluoroacetate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₃H₂₈N₄O₆·C₂HF₃O₂

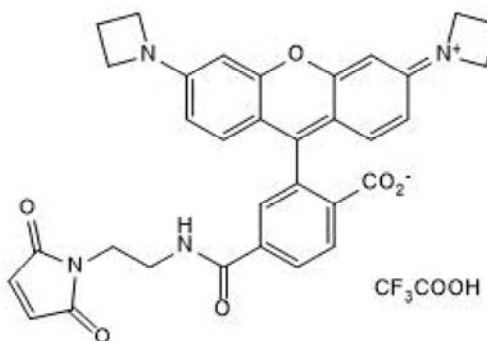
Batch Molecular Weight: 690.63

Physical Appearance: Purple solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 94.8% purity at 550 nm

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

UV Spectrum: Consistent with structure

λ_{max}: 555 nm (0.01M Phosphate buffer)

λ_{ex}: 555 nm (0.01M Phosphate buffer)

λ_{em}: 576 nm (0.01M Phosphate buffer)

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

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Description:

Janelia Fluor[®] 549, Maleimide is a yellow fluorescent dye, supplied with a maleimide reactive group for conjugation (thiol reactivity). Suitable for confocal fluorescent imaging and super resolution microscopy (SRM) techniques, such as dSTORM (live and fixed cells) and STED. Also suitable for flow cytometry. Cell permeable. Excitation maximum = 549 nm; emission maximum = 571 nm; Quantum yield = 0.88; Extinction coefficient = 101,000 M⁻¹cm⁻¹; A280 correction factor is 0.169. Please see the product protocol for further information and a guide to protein/antibody labeling. Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

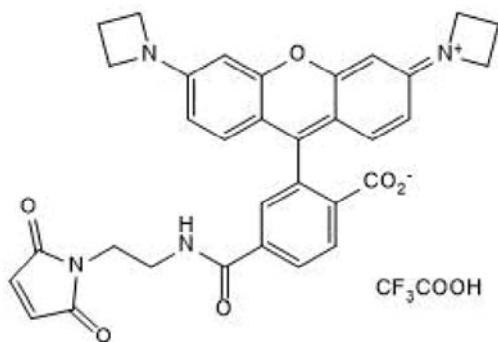
Batch Molecular Formula: C₃₃H₂₈N₄O₆.C₂HF₃O₂

Batch Molecular Weight: 690.63

Physical Appearance: Purple 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

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.

Licensing Information:

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

References:

Grimm *et al* (2015) A general method to improve fluorophores for live-cell and single-molecule microscopy Nat.Methods. **12** 244. PMID: 25599551.

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