

Product Name: Janelia Fluor[®] 549, free acid

Catalog No.: 6503

Batch No.: 2

CAS Number: 2245946-45-4

IUPAC Name: 3,6-Di-1-azetidinyl-9-(2,5-dicarboxyphenyl)xanthylium, inner salt trifluoroacetate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₇H₂₂N₂O₅.C₂HF₃O₂

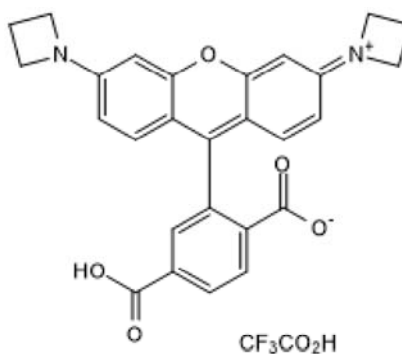
Batch Molecular Weight: 568.5

Physical Appearance: Dark grey solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 94.1% 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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Description:

Janelia Fluor[®] 549, free acid is a yellow fluorescent dye; supplied as a free acid. Used in protocol (2017 Grimm et al - see references below) for the synthesis of Janelia Fluor[®] HaloTag[®] and SNAP-Tag[®] ligands, for use in live cell imaging experiments. Also suitable for flow cytometry. Excitation maximum = 549 nm; emission maximum = 571 nm; Quantum yield = 0.88; Extinction coefficient = 101,000 M⁻¹cm⁻¹.

Physical and Chemical Properties:

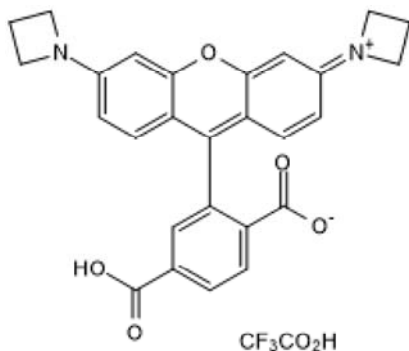
Batch Molecular Formula: C₂₇H₂₂N₂O₅.C₂HF₃O₂

Batch Molecular Weight: 568.5

Physical Appearance: Dark grey solid

Minimum Purity: ≥90%

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 (2017) Synthesis of Janelia Fluor HaloTag and SNAP-Tag Ligands and Their Use in Cellular Imaging Experiments. *Methods Mol.Biol.* **1663** 179. PMID: 28924668 .

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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