

Product Name: Hoechst Janelia Fluor® 526

Catalog No.: 7313

Batch No.: 1

IUPAC Name: 2-(3-(3,3-Difluoroazetidin-1-ium-1-ylidene)-6-(3,3-difluoroazetidin-1-yl)-2,7-difluoro-3*H*-xanthen-9-yl)-4-((2-(2-(2-(4-(4-(6-(4-methylpiperazin-1-yl)-1*H*,3'*H*-[2,5'-bibenzo[*d*]imidazol]-2'-yl)phenoxy)butanamido)ethoxy)ethoxy)ethyl)carbamoyl)benzoate tetratrifluoroacetate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₆₂H₅₈F₆N₁₀O₈.4CF₃COOH

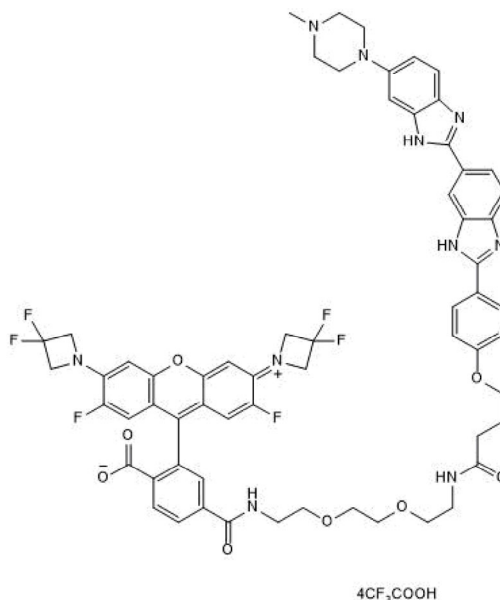
Batch Molecular Weight: 1641.29

Physical Appearance: Red solid

Solubility: DMSO to 10 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 97.8% purity at 538 nm

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

UV Spectrum: Consistent with structure

λ_{max}: 530 nm (TFE + 0.1% TFA)

λ_{ex}: 531 nm (TFE + 0.1% TFA)

λ_{em}: 549 nm (TFE + 0.1% TFA)

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

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Description:

Key information: Hoechst Janelia Fluor® 526 is a fluorogenic, green-emitting DNA probe. Suitable for live cell imaging. Used for: fixed and live-cell imaging. Application: confocal microscopy, flow cytometry, super resolution microscopy (SRM). Properties and Photophysical Data: preferentially stains and binds minor groove of AT-rich regions. When bound to A-T DNA, Hoechst Janelia Fluor® 526 exhibits a quantum yield (QY) of 0.126; when bound to G-C DNA Hoechst Janelia Fluor® 526 exhibits a quantum yield of 0.04. Fluorogenic, it fluoresces only once bound to DNA, enabling hassle-free no-wash experiments. Hoechst Janelia Fluor®... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

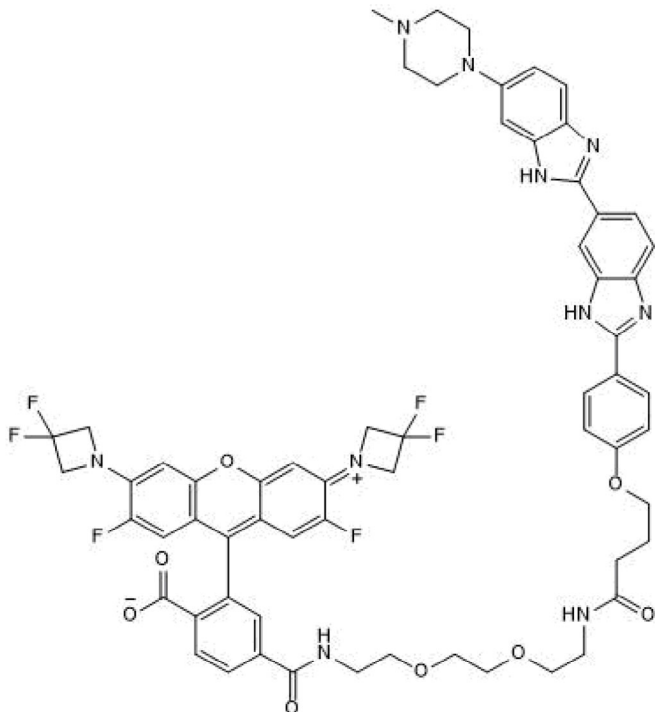
Batch Molecular Formula: C₆₂H₅₈F₆N₁₀O₈.4CF₃COOH

Batch Molecular Weight: 1641.29

Physical Appearance: Red solid

Minimum Purity: ≥95%

Batch Molecular Structure:



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Storage: Store at -20°C

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 10 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. *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 a fluorogenic and super-resolution imaging ACS Cent Sci 9:1602-1612. doi:10.1021/acscentsci.8b00207. biotechne.com

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