

Product Name: Hoechst Janelia Fluor® 526

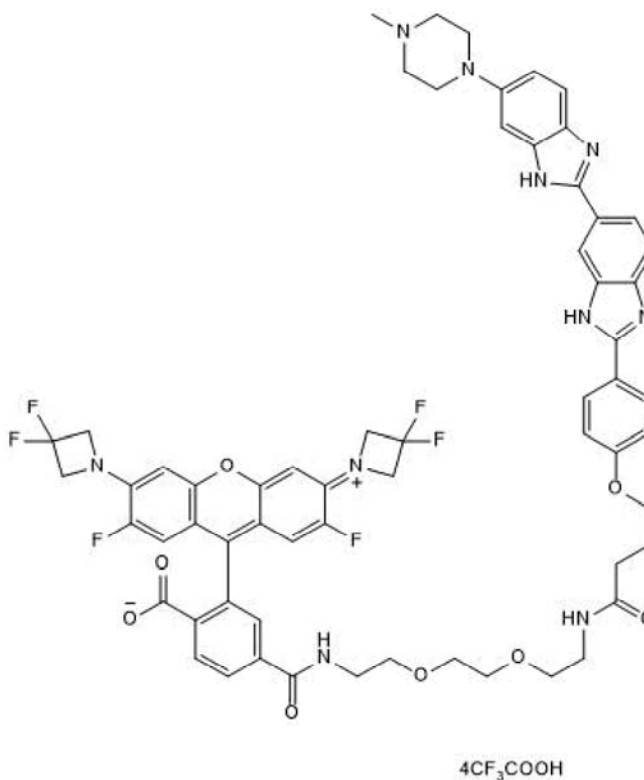
Catalog No.: 7313

Batch No.: 1

IUPAC Name: 2-(3-(3,3-Difluoroazetidini-1-ium-1-ylidene)-6-(3,3-difluoroazetidini-1-yl)-2,7-difluoro-3H-xanthen-9-yl)-4-((2-(2-(2-(4-(4-(6-(4-methylpiperazin-1-yl)-1H,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 99.4% 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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IUPAC Name: 2-(3-(3,3-Difluoroazetidin-1-ium-1-ylidene)-6-(3,3-difluoroazetidin-1-yl)-2,7-difluoro-3H-xanthen-9-yl)-4-((2-(2-(4-(4-(6-(4-methylpiperazin-1-yl)-1H,3'H-[2,5'-bibenzo[d]imidazol]-2'-yl)phenoxy)butanamido)ethoxy)ethoxy)ethyl) carbamoyl)benzoate tetratrifluoroacetate

Description:

Hoechst Janelia Fluor[®] 526 is a fluorogenic, green-emitting DNA probe. 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 = 0.04. Fluorogenic: fluoresces only once bound to DNA, enabling hassle-free no-wash experiments. Hoechst Janelia Fluor[®] 526 is suitable for multicolor microscopy experiments and for use in live cell imaging. Excitation maximum = 531 nm; emission maximum = 549 nm. To measure the absorbance spectrum of Hoechst Janelia Fluor[®] ... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

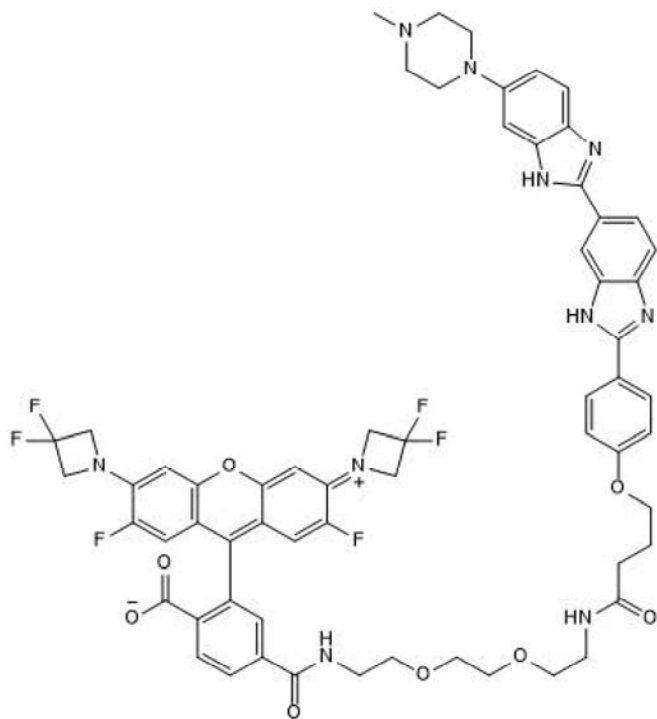
Batch Molecular Formula: C₆₂H₅₈F₆N₁₀O₈.4CF₃COOH

Batch Molecular Weight: 1641.29

Physical Appearance: Red solid

Minimum Purity: ≥95%

Batch Molecular Structure:



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Storage: Store at -20°C. 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 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. 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:

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

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