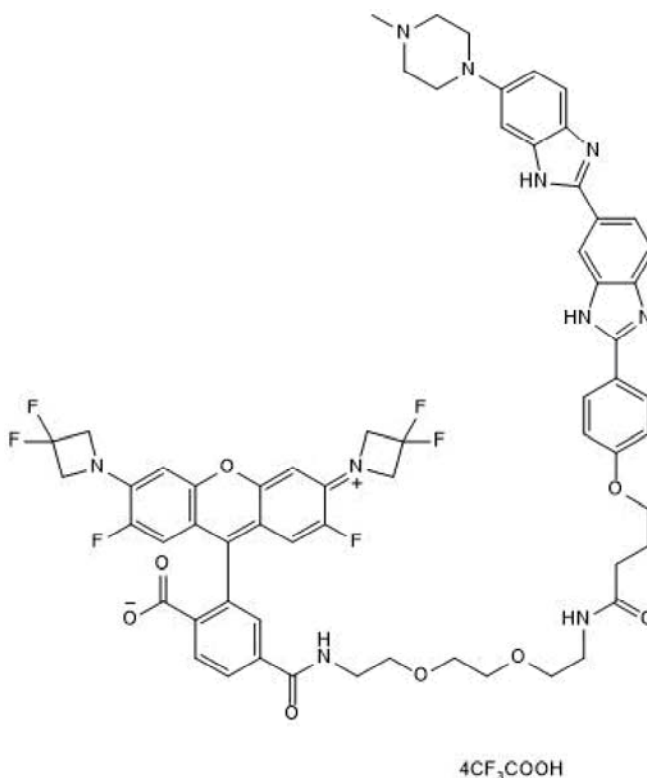


**Product Name:** Hoechst Janelia Fluor® 526 **Catalog No.:** 7313 **Batch No.:** 1  
**IUPAC Name:** 2-(3-(3,3-Difluoroazetidin-1-ium-1-ylidene)-6-(3,3-difluoroazetidin-1-yl)-2,7-difluoro-3H-xanthen-9-yl)-4-((2-(2-(2-(4-(6-(4-methylpiperazin-1-yl)-1H,3'H-[2,5'-bibenzo[d]imidazol]-2'-yl)phenoxy)butanamido)ethoxy)ethoxy)ethyl)carbamoyl)benzoate tetratrifluoroacetate

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular 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 99.9% purity at 213.0 nm  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**UV Spectrum:** Consistent with structure  
**λ<sub>max</sub>:** 530 nm (TFE + 0.1% TFA)  
**λ<sub>ex</sub>:** 531 nm (TFE + 0.1% TFA)  
**λ<sub>em</sub>:** 549 nm (TFE + 0.1% TFA)

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

**Product Name:** Hoechst Janelia Fluor® 526

**Catalog No.:** 7313

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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-(2-(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](http://www.tocris.com) for full description.

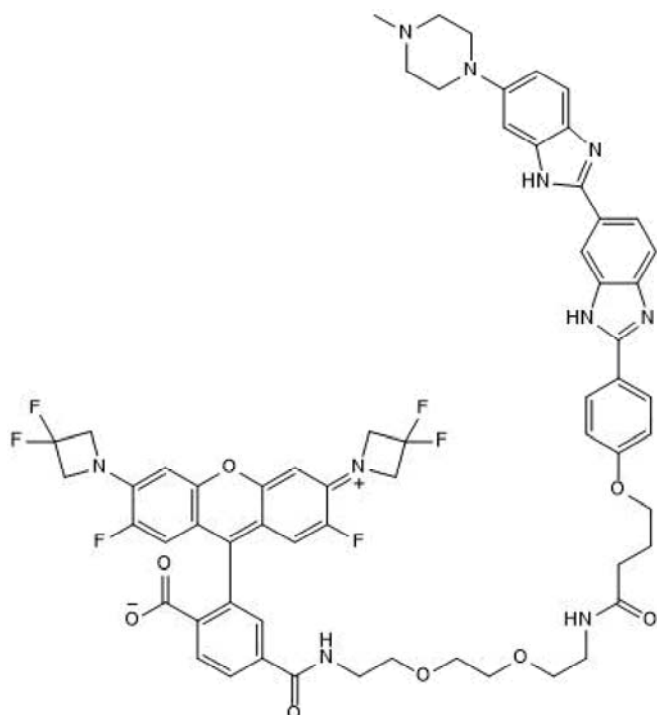
**Physical and Chemical Properties:**

Batch Molecular Weight: 1641.29

Physical Appearance: Red solid

**Minimum Purity:** ≥95%

**Batch Molecular Structure:**



4CF<sub>3</sub>COOH

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

**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. [doi.org/10.1021/acscentsci.8b00787](http://doi.org/10.1021/acscentsci.8b00787)

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