

Product Name: Taxol Janelia Fluor® 526

Catalog No.: 7315

Batch No.: 1

CAS Number: 2410613-93-1

IUPAC Name: 4-(((8-(((1*S*,2*R*)-3-(((2*aR*,4*S*,4*aS*,6*R*,9*S*,11*S*,12*S*,12*aR*,12*bS*)-12*b*-Acetoxy-12-(benzoyloxy)-4,6,11-trihydroxy-4*a*,8,13,13-tetramethyl-5-oxo-2*a*,3,4,4*a*,5,6,9,10,11,12,12*a*,12*b*-dodecahydro-1*H*-7,11-methanocyclodeca[3,4]benzo[1,2-*b*]oxet-9-yl)oxy)-2-hydroxy-3-oxo-1-phenylpropyl)amino)-8-oxooctyl)carbamoyl)-2-(3-(3,3-difluoroazetidin-1-ium-1-ylidene)-6-(3,3-difluoroazetidin-1-yl)-2,7-difluoro-3*H*-xanthen-9-yl)benzoate trifluoroacetate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₇₃H₇₄F₆N₄O₁₇.CF₃CO₂H

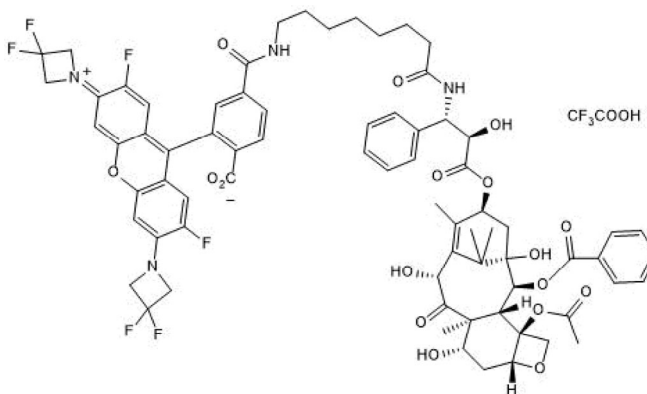
Batch Molecular Weight: 1507.42

Physical Appearance: Pink solid

Solubility: DMSO to 10 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 87.2% purity at 534 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: Taxol Janelia Fluor® 526 is a fluorogenic, green-fluorescent taxol derivative for direct imaging of the microtubule cytoskeleton. Suitable for live cell imaging. Used for: direct imaging of the microtubule cytoskeleton. Application: confocal microscopy, Super Resolution Microscopy (SRM) including STED. Properties and Photophysical Data: Taxol Janelia Fluor® 526 is fluorogenic: it fluoresces only once bound to microtubules, enabling hassle-free no-wash experiments. Excitation and emission maxima (λ) are 531 nm and 549 nm, respectively; quantum yield = 0.87; extinction coefficient = 118,000 M⁻¹cm⁻¹. Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

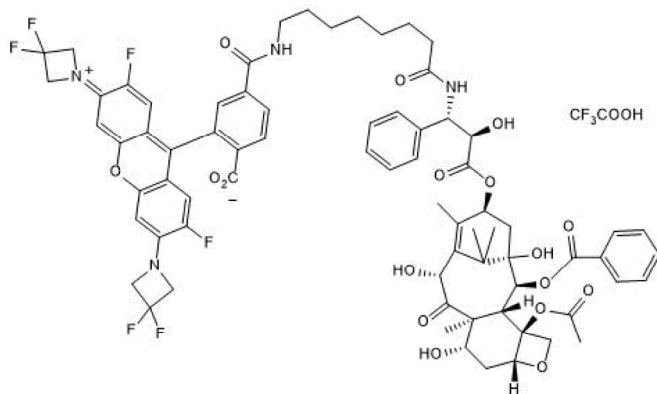
Batch Molecular Formula: C₇₃H₇₄F₆N₄O₁₇.CF₃CO₂H

Batch Molecular Weight: 1507.42

Physical Appearance: Pink solid

Minimum Purity: ≥85%

Batch Molecular Structure:



References:

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

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

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