

Product Name: Janelia Fluor 526[®], NHS ester

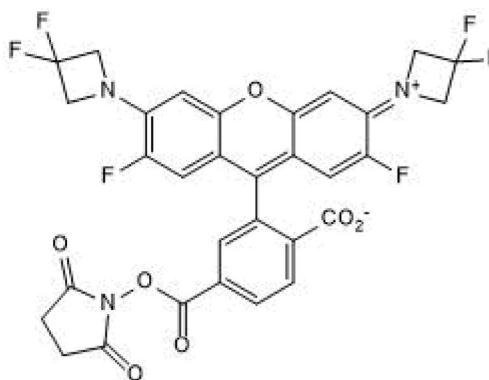
Catalog No.: 7316

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-(((2,5-dioxopyrrolidin-1-yl)oxy)carbonyl)benzoate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₃₁ H ₁₉ F ₆ N ₃ O ₇
Batch Molecular Weight:	659.5
Physical Appearance:	Beige solid
Solubility:	DMSO to 20 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
UV Spectrum:	Consistent with structure
λ_{max}:	535 nm (Ethanol + 0.1% TFA)
λ_{ex}:	537 nm (Ethanol + 0.1% TFA)
λ_{em}:	563 nm (Ethanol + 0.1% TFA)

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

Product Name: Janelia Fluor 526[®], NHS ester

Catalog No.: 7316

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-(((2,5-dioxopyrrolidin-1-yl)oxy)carbonyl)benzoate

Description:

Key Information: Janelia Fluor[®] 526, NHS ester is a fluorogenic yellow fluorescent dye; supplied with an NHS ester reactive group for the labeling of primary amines. **Application:** Suitable for confocal microscopy, two-color lattice light-sheet microscopy, super resolution microscopy (SRM) including dSTORM (in both live and fixed cells) and STED. Cell permeable. **Properties and Photophysical Data:** NHS ester can be converted to relevant substrate for use in self-labeling tag systems, e.g. HaloTag[®] and SNAP-tag[®]. Can be multiplexed for two color imaging with Janelia Fluor[®] 635 NHS ester (Cat. No. 6419). **Excitation and emission m...** Please see product specific page on www.tocris.com for full description.

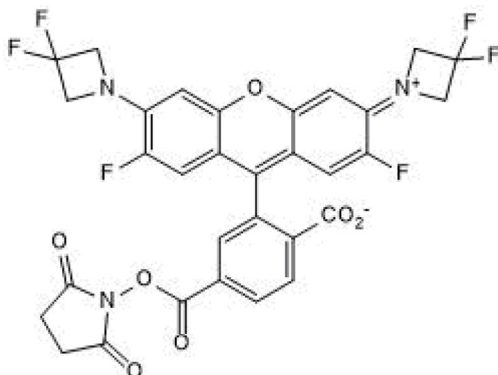
Physical and Chemical Properties:

Batch Molecular Formula: C₃₁H₁₉F₆N₃O₇

Batch Molecular Weight: 659.5

Physical Appearance: Beige solid

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. 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 20 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

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956