

Product Name: HM Janelia Fluor® 526, NHS ester

Catalog No.: 7312

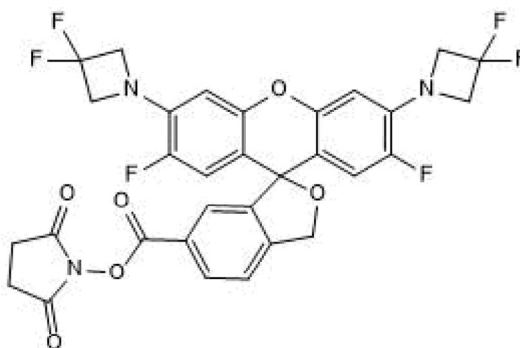
Batch No.: 1

CAS Number: 2376841-30-2

IUPAC Name: 2,5-Dioxopyrrolidin-1-yl 3',6'-bis(3,3-difluoroazetidin-1-yl)-2',7'-difluoro-3*H*-spiro[isobenzofuran-1,9'-xanthene]-6-carboxylate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₁H₂₁F₆N₃O₆
Batch Molecular Weight: 645.51
Physical Appearance: Pink solid
Solubility: DMSO to 20 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 97.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
UV Spectrum: Consistent with structure
λ_{max}: 540 nm (EtOH + 0.1% TFA)
λ_{ex}: 544 nm (EtOH + 0.1% TFA)
λ_{em}: 564 nm (EtOH + 0.1% TFA)

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

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Description:

Key information: HM Janelia Fluor® 526, NHS ester is a fluorogenic spontaneously blinking yellow-emitting dye; supplied with an NHS ester reactive group for the labeling of primary amines; hydroxymethyl derivative of JF526. Suitable for live cell imaging. Application: Suitable for confocal microscopy, super-resolution microscopy (SRM) including dSTORM, STED, SIM and single-molecule localization spectroscopy (SMLSM). HM Janelia Fluor® 526, NHS ester is cell permeable. Properties and Photophysical Data: The spontaneous blinking properties of HM Janelia Fluor® 526, NHS ester avoids the requirement for strongly reducing dSTORM bu... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

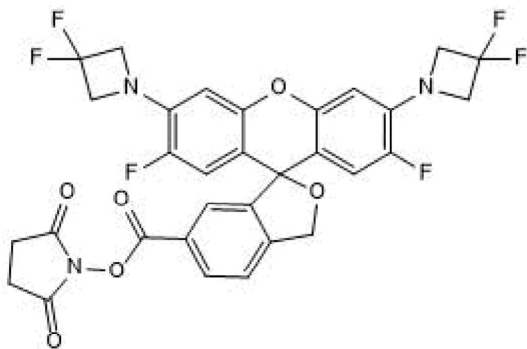
Batch Molecular Formula: C₃₁H₂₁F₆N₃O₆

Batch Molecular Weight: 645.51

Physical Appearance: Pink solid

Minimum Purity: ≥90%

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

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North America

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