



# **Certificate of Analysis**

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Batch No.: 1

Product Name: HM Janelia Fluor® 526, NHS ester Catalog No.: 7312

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:**  $C_{31}H_{21}F_6N_3O_6$ 

**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

 $^1$ H NMR:Consistent with structureMass Spectrum:Consistent with structureUV Spectrum:Consistent with structure $\lambda_{max}$ :540 nm (EtOH + 0.1% TFA) $\lambda_{ex}$ :544 nm (EtOH + 0.1% TFA) $\lambda_{em}$ :564 nm (EtOH + 0.1% TFA)

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

# **Product Information**

Print Date: Sep 16th 2024

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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, superresolution 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:  $C_{31}H_{21}F_6N_3O_6$ 

Batch Molecular Weight: 645.51 Physical Appearance: Pink solid

**Minimum Purity:** ≥90%

#### **Batch Molecular Structure:**

**Storage:** Store at -20°C. This product is packaged under an inert atmosphere.

Catalog No.: 7312

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

#### 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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