

**Product Name:** Janelia Fluor<sup>®</sup> 525, NHS ester

**Catalog No.:** 6296

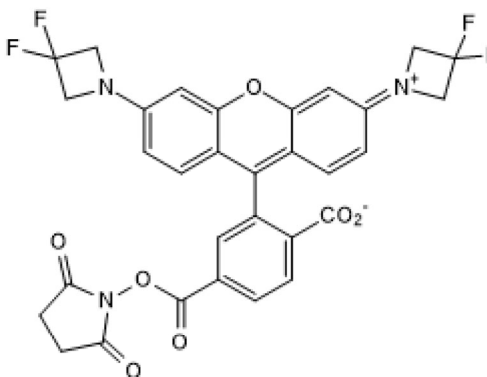
**Batch No.:** 4

CAS Number: 2975167-21-4

IUPAC Name: 3,6-Di-1-(3,3-difluoroazetidinyl)-9-[2-carboxy-5-[[[(2,5-dioxo-1-pyrrolidinyl)oxy]carbonyl]phenyl]xanthylum, inner salt

## 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	C <sub>31</sub> H <sub>21</sub> F <sub>4</sub> N <sub>3</sub> O <sub>7</sub>
<b>Batch Molecular Weight:</b>	623.51
<b>Physical Appearance:</b>	Pink solid
<b>Solubility:</b>	DMSO to 50 mM
<b>Storage:</b>	Store at -20°C
<b>Batch Molecular Structure:</b>	



## 2. ANALYTICAL DATA

<b><sup>1</sup>H NMR:</b>	Consistent with structure
<b>Mass Spectrum:</b>	Consistent with structure
<b>UV Spectrum:</b>	Consistent with structure
<b>λ<sub>max</sub>:</b>	530 nm (PBS buffer pH7.4)
<b>λ<sub>ex</sub>:</b>	531 nm (PBS buffer pH7.4)
<b>λ<sub>em</sub>:</b>	555 nm (PBS buffer pH7.4)

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

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**Description:**

Key information: Janelia Fluor<sup>®</sup> 525, NHS ester is a yellow fluorescent dye; supplied with an NHS ester reactive for the labeling of primary amines. Suitable for live cell imaging. Application: Suitable for confocal microscopy and super resolution microscopy (SRM) techniques, including dSTORM (in both live and fixed cells). Janelia Fluor<sup>®</sup> 525, NHS ester is cell permeable. Properties and Photophysical Data: NHS ester can be converted to relevant substrate for use in self-labeling tag systems, e.g. HaloTag<sup>®</sup> and SNAP-tag<sup>®</sup>. Can be multiplexed for two color imaging with Janelia Fluor<sup>®</sup> 635 NHS ester (Cat. No. 6419). Excitatio... Please see product specific page on www.tocris.com for full description.

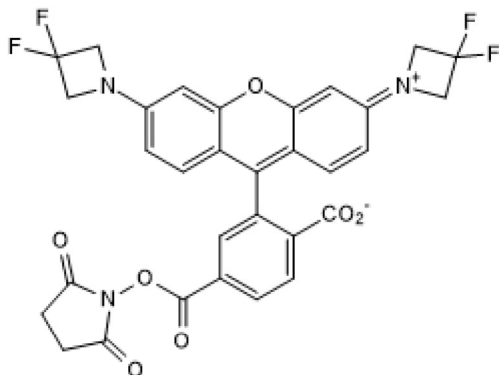
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Physical Appearance: Pink solid

**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.

Grimm *et al* (2017) A general method to fine-tune fluorophores for live-cell and *in vivo* imaging. Nat. Methods **14** 987. PMID: 28869757.

**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 50 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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