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TOCRIS

Print Date: Dec 1st 2025

Certificate of Analysis

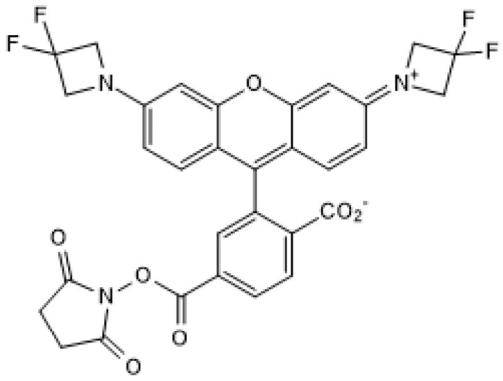
www.tocris.com

Product Name: **Janelia Fluor® 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]xanthylium, inner salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	$C_{31}H_{21}F_4N_3O_7$
Batch Molecular Weight:	623.51
Physical Appearance:	Pink solid
Solubility:	DMSO to 50 mM
Storage:	Store at -20°C
Batch Molecular Structure:	

2. ANALYTICAL DATA

^{1}H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
UV Spectrum:	Consistent with structure
λ_{max}:	530 nm (0.01M PBS)
λ_{ex}:	531 nm (0.01M PBS)
λ_{em}:	555 nm (0.01M PBS)

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Description:

Key information: Janelia Fluor® 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® 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® and SNAP-tag®. Can be multiplexed for two color imaging with Janelia Fluor® 635, NHS ester (Cat. No. 6419). Excitati... Please see product specific page on www.tocris.com for full description.

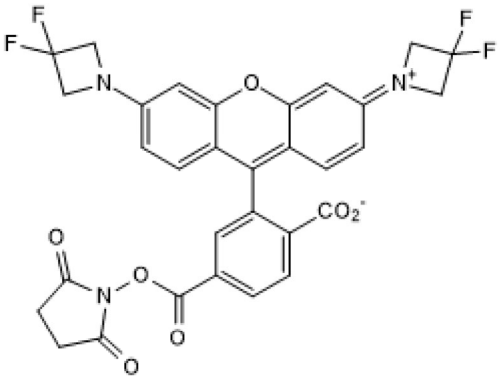
Physical and Chemical Properties:

Batch Molecular Formula: $C_{31}H_{21}F_4N_3O_7$

Batch Molecular Weight: 623.51

Physical Appearance: Pink solid

Batch Molecular Structure:



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

This product is supplied in lyophilized form. It may appear as a solid, gel or film and be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

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.

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

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