



Certificate of Analysis

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Product Name: dTAG Janelia Fluor[®] 525 Catalog No.: 8102 Batch No.: 1

 $IUPAC\ Name: 2-(3-(3,3-Difluoroazetidin-1-ium-1-ylidene)-6-(3,3-difluoroazetidin-1-yl)-3H-xanthen-9-yl)-4-((2-(2-(3-((R)-3-(3,4-(R)-3-(R)-1-yl)-3H-xanthen-1-yl)-3H-xanthen-1-yl)-3H-xanthen-9-yl)-4-((2-(3-((R)-3-(3,4-(R)-3-(R)-1-yl)-3H-xanthen$

dimethoxyphenyl)-1-(((S)-1-((S)-2-(3,4,5-trimethoxyphenyl)butanoyl)piperidine-2-carbonyl)oxy)propyl)phenoxy)

acetamido)ethyl)carbamoyl)benzoate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{67}H_{69}F_4N_5O_{14}$

Batch Molecular Weight: 1244.3 **Physical Appearance:** Pink solid

Solubility: DMSO to 10 mM Storage: Store at -20°C

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 97.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure



Product Information

Print Date: Dec 1st 2025

Batch No.: 1

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dimethoxyphenyl)-1-(((S)-1-((S)-2-(3,4,5-trimethoxyphenyl)butanoyl)piperidine-2-carbonyl)oxy)propyl)phenoxy)

acetamido)ethyl)carbamoyl)benzoate

Description:

IUPAC Name:

Key Information: dTAG Janelia Fluor® 525 is a fluorogenic srTAG probe for live cell imaging of FKBP12F36V/L fusion proteins. Application: Suitable for confocal microscopy and Super Resolution Microscopy (SRM) including STED. dTAG Janelia Fluor® 525 is cell permeable. Properties and Photophysical Data: In FRAP (fluorescence recovery after photobleaching) experiment, the highest maximum recovery ratio (73%) was shown when U2OS cells expressing FKBPF36L were incubated with 10 μ M dTAG Janelia Fluor® 525; excitation and emission maxima (λ) are 530 nm and 560 nm, respectively; quantum yield = 0.47; extinction coefficient = 8... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

Batch Molecular Formula: C₆₇H₆₉F₄N₅O₁₄

Batch Molecular Weight: 1244.3 Physical Appearance: Pink solid

Minimum Purity: ≥95%

Batch Molecular Structure:

Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Catalog No.: 8102

Solubility & Usage Info:

DMSO to 10 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.

References:

Du et al (2023) Self-renewable tag for photostable fluorescence imaging of proteins. J.Am.Chem.Soc. 145 18968. PMID: 37596976.

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

Tel: +44 (0)1235 529449