



# **Certificate of Analysis**

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Product Name: Janelia Fluor® 635, Tetrazine

Catalog No.: 8134

Batch No.: 1

IUPAC Name:

4-((4-(1,2,4,5-Tetrazin-3-yl)benzyl)carbamoyl)-2-(3-(3-fluoroazetidin-1-ium-1-ylidene)-7-(3-fluoroazetidin-1-yl)-5,5-

 $dimethyl-3, 5-dihydrodibenzo [\emph{b},\emph{e}] silin-10-yl) benzoate$ 

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>38</sub>H<sub>33</sub>F<sub>2</sub>N<sub>7</sub>O<sub>3</sub>Si

**Batch Molecular Weight:** 701.81 **Physical Appearance:** Pink solid

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

**Batch Molecular Structure:** 

#### 2. ANALYTICAL DATA

**HPLC:** Shows 92.5% purity at 268 nm

 $^1$ H NMR:Consistent with structureMass Spectrum:Consistent with structureUV Spectrum:Consistent with structure $\lambda_{max}$ :643 nm (EtOH + 0.1% TFA) $\lambda_{ex}$ :645 nm (EtOH + 0.1% TFA) $\lambda_{em}$ :663 nm (EtOH + 0.1% TFA)

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



## **Product Information**

Print Date: Dec 1st 2025

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Product Name: Janelia Fluor<sup>®</sup> 635, Tetrazine Catalog No.: 8134 Batch No.: 1

IUPAC Name: 4-((4-(1,2,4,5-Tetrazin-3-yl)benzyl)carbamoyl)-2-(3-(3-fluoroazetidin-1-ium-1-ylidene)-7-(3-fluoroazetidin-1-yl)-5,5-

dimethyl-3,5-dihydrodibenzo[b,e]silin-10-yl)benzoate

#### **Description:**

Key Information: Janelia Fluor® 635, Tetrazine is a red fluorogenic fluorescent dye; supplied with a tetrazine reactive handle for copper-free click chemistry. Suitable for live-cell imaging. Application: Suitable for flow cytometry, confocal microscopy, super resolution microscopy (SRM) techniques including dSTORM (in both live and fixed cells). Janelia Fluor® 635, Tetrazine is cell permeable. Properties and Photophysical Data: Excitation and emission maxima ( $\lambda$ ) are 645 nm and 663 nm, respectively. Janelia Fluor® is a registered trademark of Howard Hughes Medical Institute.

#### **Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>38</sub>H<sub>33</sub>F<sub>2</sub>N<sub>7</sub>O<sub>3</sub>Si

Batch Molecular Weight: 701.81 Physical Appearance: Pink solid

**Minimum Purity:** ≥90%

#### **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.

## Solubility & Usage Info:

DMSO to 10 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 $^{\circ}$ 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:

**Peng and Hang** (2016) Site-specific bioorthogonal labeling for fluorescence imaging of intracellular proteins in living cells. J.Am.Chem.Soc. *138* 14423. PMID: 27768298.

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