

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[*b,e*]silin-10-yl)benzoate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₈H₃₃F₂N₇O₃Si

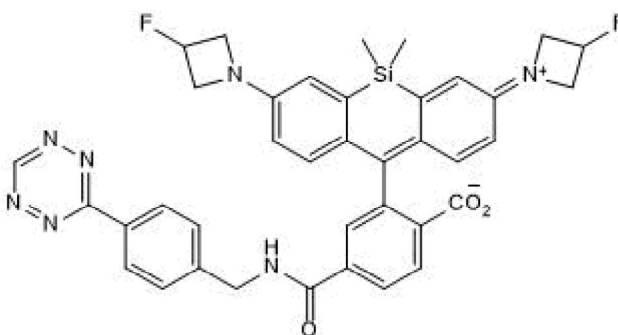
Batch Molecular Weight: 701.81

Physical Appearance: Pink solid

Solubility: DMSO to 10 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 94.7% purity at 268 nm

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

UV Spectrum: Consistent with structure

λ_{max}: 643 nm (EtOH + 0.1% TFA)

λ_{ex}: 645 nm (EtOH + 0.1% TFA)

λ_{em}: 663 nm (EtOH + 0.1% TFA)

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956

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Catalog No.: 8134

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IUPAC Name: 4-((4-(1,2,4,5-Tetrazin-3-yl)benzyl)carbonyl)-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 (λ) are 645 nm and 663 nm, respectively. Janelia Fluor is a registered trademark of Howard Hughes Medical Institute.

Physical and Chemical Properties:

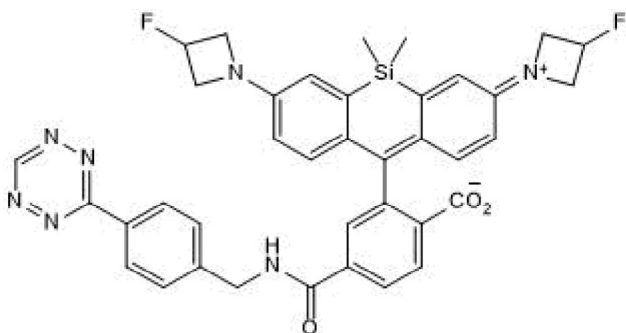
Batch Molecular Formula: C₃₈H₃₃F₂N₇O₃Si

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°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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bio-techne.com

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techsupport@bio-techne.com

North America

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