



Certificate of Analysis

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Product Name: Janelia Fluor® 646b, Maleimide Catalog No.: 8158 Batch No.: 1

CAS Number: 2634129-70-5

IUPAC Name: 3,7-Di(azetidin-1-yl)-N-(2-(2,5-dioxo-2,5-dihydro-1H-pyrrol-1-yl)ethyl)-5,5-dimethyl-3'H,5H-spiro[dibenzo[b,e]siline-

10,1'-isobenzofuran]-6'-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₅H₃₆N₄O₄Si

Batch Molecular Weight: 604.78

Physical Appearance: Green solid

Storage: Store at -20°C

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 97.3% purity at 657 nm

Mass Spectrum:Consistent with structureUV Spectrum:Consistent with structure

 λ_{max} : 658 nm (Ethanol + 0.1% TFA) λ_{ex} : 662 nm (Ethanol + 0.1% TFA) λ_{em} : 675 nm (Ethanol + 0.1% TFA)

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

Product Information

Print Date: Jun 27th 2025

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IUPAC Name: 3,7-Di(azetidin-1-yl)-*N*-(2-(2,5-dioxo-2,5-dihydro-1*H*-pyrrol-1-yl)ethyl)-5,5-dimethyl-3'*H*,5*H*-spiro[dibenzo[*b*,e]siline-

10,1'-isobenzofuran]-6'-carboxamide

Description:

Spontaneously Blinking Janelia Fluor® Dyes allow facile single-molecule localization microscopy (SMLM) in cells and dense biomolecular structures, without the need for photoactivation or redox buffers. These spontaneously blinking dyes harness Janelia Fluor® technology to delivery dyes that automatically cycle between 'off' and 'on' states with an ideal duty cycle for super resolution microscopy experiments. Key Information: Janelia Fluor® 646b, Maleimide is a spontaneously blinking fluorescent dye, supplied with a maleimide reactive group for conjugation (thiol reactivity) for the labeling of protein. Suitable to characterize t... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

Batch Molecular Formula: C₃₅H₃₆N₄O₄Si Batch Molecular Weight: 604.78 Physical Appearance: Green 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.

Catalog No.: 8158

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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