

# Certificate of Analysis

[www.tocris.com](http://www.tocris.com)

**Product Name:** Janelia Fluor® 630b, Maleimide

**Catalog No.:** 8154

**Batch No.:** 1

**IUPAC Name:** *N*-(2-(2,5-Dioxo-2,5-dihydro-1*H*-pyrrol-1-yl)ethyl)-5,5-dimethyl-3,7-bis(3-(methylsulfonyl)azetidin-1-yl)-3'*H*,5*H*-spiro[dibenzo[*b,e*]silole-10,1'-isobenzofuran]-6'-carboxamide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

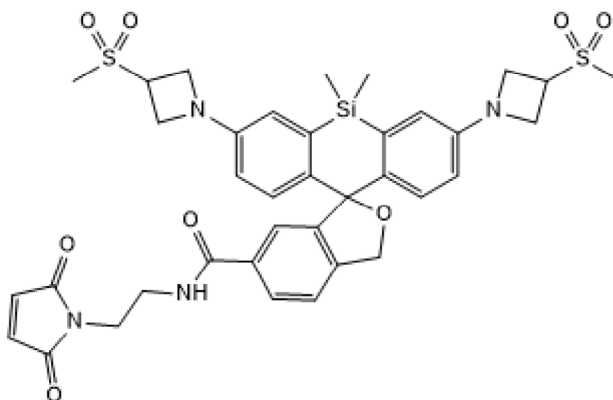
**Batch Molecular Formula:** C<sub>37</sub>H<sub>40</sub>N<sub>4</sub>O<sub>8</sub>S<sub>2</sub>Si

**Batch Molecular Weight:** 760.95

**Physical Appearance:** Green solid

**Storage:** Store at -20°C

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 90% purity at 645 nm

**Mass Spectrum:** Consistent with structure

**UV Spectrum:** Consistent with structure

**λ<sub>max</sub>:** 650 nm (EtOH+0.1%TFA)

**λ<sub>ex</sub>:** 651 nm (EtOH+0.1%TFA)

**λ<sub>em</sub>:** 667 nm (EtOH+0.1%TFA)

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

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**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 deliver dyes that automatically cycle between 'off' and 'on' states with an ideal duty cycle for super resolution microscopy experiments. Key Information: Janelia Fluor® 630b, Maleimide is a spontaneously blinking fluorescent dye, supplied with a maleimide reactive group for conjugation (thiol reactivity). Suitable to characterize the physical properties of de... Please see product specific page on [www.tocris.com](http://www.tocris.com) for full description.

**Physical and Chemical Properties:**

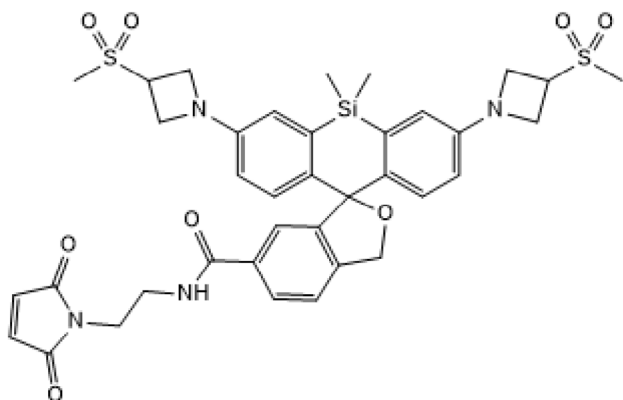
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Batch Molecular Weight: 760.95

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.

**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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