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TOCRIS

Print Date: Dec 1st 2025

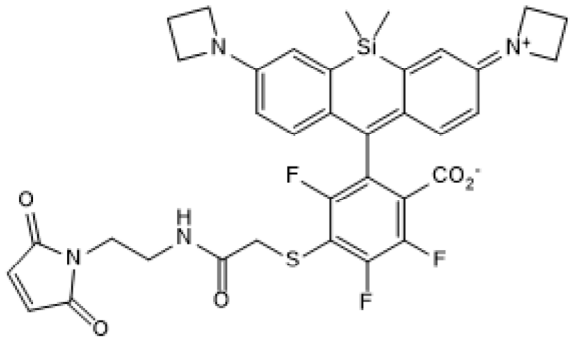
Certificate of Analysis

www.tocris.com

Product Name: **Janelia Fluor® 669, Maleimide** **Catalog No.: 8097** **Batch No.: 1**

IUPAC Name: 2-(3-(Azetidin-1-ium-1-ylidene)-7-(azetidin-1-yl)-5,5-dimethyl-3,5-dihydrodibenzo[*b*,*e*]silin-10-yl)-4-((2-((2-(2,5-dioxo-2,5-dihydro-1*H*-pyrrol-1-yl)ethyl)amino)-2-oxoethyl)thio)-3,5,6-trifluorobenzoate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	$C_{36}H_{33}F_3N_4O_5SSi$
Batch Molecular Weight:	718.82
Physical Appearance:	Pale green solid
Solubility:	DMSO to 10 mM
Storage:	Store at -20°C
Batch Molecular Structure:	

2. ANALYTICAL DATA

HPLC:	Shows 95.0% purity at 667 nm
^{1}H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
UV Spectrum:	Consistent with structure
λ_{max}:	670 nm (EtOH + 0.1% TFA)
λ_{ex}:	673 nm (EtOH + 0.1% TFA)
λ_{em}:	688 nm (EtOH + 0.1% TFA)

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Description:

Key information: Janelia Fluor® 669, Maleimide is a red fluorogenic fluorescent dye, supplied with a maleimide reactive group for conjugation (thiol reactivity). Suitable for live cell imaging. Application: Suitable for flow cytometry, confocal microscopy, super resolution microscopy (SRM) including dSTORM (in both live and fixed cells) and STED. Can be multiplexed for two color imaging with Janelia Fluor® 549 SE (Cat. No. 6147). Cell permeable. Properties and Photophysical Data: Excitation and emission maxima (λ) are 669 nm and 689 nm, respectively. Please see the product protocol for further information and a guide to prot... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

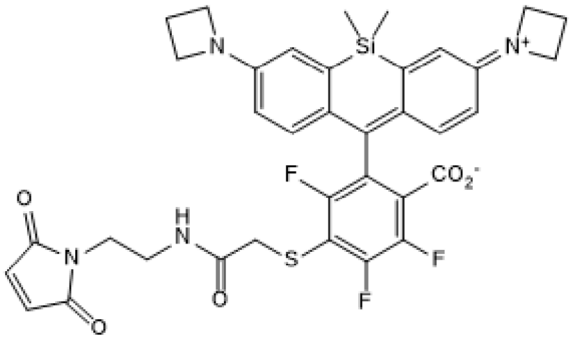
Batch Molecular Formula: $C_{36}H_{33}F_3N_4O_5SSi$

Batch Molecular Weight: 718.82

Physical Appearance: Pale green 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.

Solubility & Usage Info:

DMSO to 10 mM

CAUTION - This product is chemically unstable in the presence of Trifluoroacetic acid (TFA).

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

References:

Grimm *et al* (2015) A general method to improve fluorophores for live-cell and single-molecule microscopy. Nat.Methods ***12*** 244. PMID: 25599551.

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