

Product Name: Janelia Fluor[®] 669, SE

Catalog No.: 6420

Batch No.: 2

CAS Number: 2127150-20-1

IUPAC Name: 1-[7-(1-Azetidinyl)-10-[2-Carboxy-5-[(2-(2,5-dioxopyrrolidin-1-yl)oxy)-2-oxoethyl]thio-3,4,6-trifluorophenyl]-9,9-dimethyl-9-silaanthracen-2(9*H*)-ylidene]azetidinium, inner salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₄H₃₀F₃N₃O₆SSi

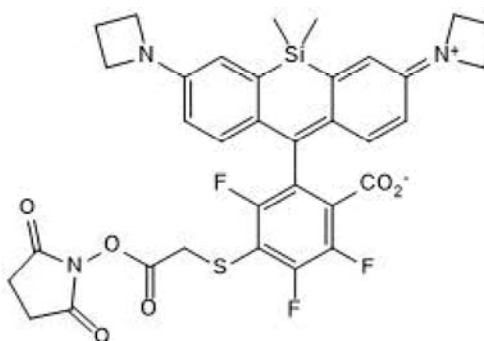
Batch Molecular Weight: 693.77

Physical Appearance: Green solid

Solubility: DMSO to 20 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 93.1% purity

Mass Spectrum: Consistent with structure

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

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Description:

Janelia Fluor[®] 669, SE is a red fluorescent dye; supplied as an NHS ester for coupling to primary amine groups. NHS ester can be converted to relevant substrate for use in self-labeling tag systems, e.g. HaloTag[®] and SNAP-tag[®]. Suitable for confocal fluorescent imaging and super resolution microscopy (SRM) techniques, such as dSTORM (live and fixed cells). Cell permeable. Excitation maximum = 669 nm; emission maximum = 682 nm; Quantum yield = 0.37; Extinction coefficient = 116,000 M⁻¹cm⁻¹; Correction factor = 0.0430. Retains 97% fluorescence after 30 bleaching cycles. Please see the protocol for further information on protein/an... Please see product specific page on www.tocris.com for full description.

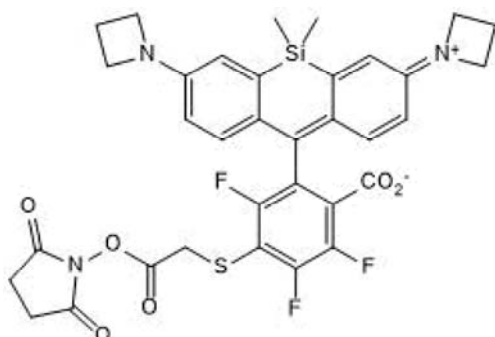
Physical and Chemical Properties:

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References:

- Grimm et al (2020)** A general method to optimize and functionalize red-shifted rhodamine dyes. *Nat.Methods* **17** 815. PMID: 32719532.
Grimm et al (2017) General synthetic method for Si-Fluoresceins and Si-Rhodamines. *ACS Cent.Sci.* **3** 975. PMID: 28979939.
Grimm et al (2017) A general method to fine-tune fluorophores for live-cell and *in vivo* imaging. *Nat.Methods* **14** 987. PMID: 28869757.

Storage: Store at -20°C. This product is packaged under an inert atmosphere.

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 20 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. Our standard recommendations are:

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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