

Product Name: Janelia Fluor[®] 635, SE

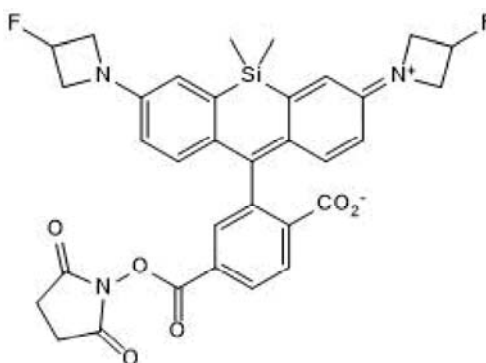
Catalog No.: 6419

Batch No.: 2

IUPAC Name: 1-[10-[2-Carboxy-5-[[[(2,5-dioxo-1-pyrrolidinyl)oxy]carbonyl]phenyl]-9,9-dimethyl-7-[1-(3-fluoroazetidiny)]-9-silaanthracen-2(9*H*)-ylidene]-3-fluoroazetidinium, inner salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₃₃ H ₂₉ F ₂ N ₃ O ₆ Si
Batch Molecular Weight:	629.69
Physical Appearance:	Yellow solid
Solubility:	DMSO to 100 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 98.9% purity at 647 nm
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
UV Spectrum:	Consistent with structure
λ_{max}:	645 nm (EtOH + 0.1% TFA)
λ_{ex}:	648 nm (EtOH + 0.1% TFA)
λ_{em}:	664 nm (EtOH + 0.1% TFA)

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

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Description:

Janelia Fluor[®] 635, SE is a red fluorogenic 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). Also suitable for flow cytometry. Cell permeable. Excitation maximum = 635 nm; emission maximum = 652 nm; Quantum yield = 0.56; Max extinction coefficient = 167,000 M⁻¹cm⁻¹ (measured in Ethanol or TFE plus 0.1% TFA); Correction factor = 0.0524. Exhibits low nonspeci... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

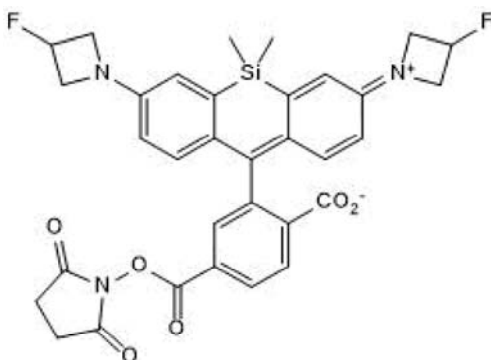
Batch Molecular Formula: C₃₃H₂₉F₂N₃O₆Si

Batch Molecular Weight: 629.69

Physical Appearance: Yellow solid

Minimum Purity: ≥95%

Batch Molecular Structure:



References:

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 100 mM

To measure the absorbance spectrum of this dye we recommend the following solvent: ethanol or trifluoroethanol plus 0.1% 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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