



Storage:

Certificate of Analysis

www.tocris.com

Janelia Fluor® 549, Haloalkane Catalog No.: 8806 Batch No.: 1 **Product Name:**

1811539-33-9 CAS Number:

IUPAC Name: 2-(3-(Azetidin-1-ium-1-ylidene)-6-(azetidin-1-yl)-3H-xanthen-9-yl)-4-((2-(2-((6-chlorohexyl)oxy)ethoxy)ethyl)

Store at -20°C

carbamoyl)benzoate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Weight: 660.21

Physical Appearance: Purple solid DMSO to 10 mM Solubility:

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 90.3% purity at 555 nm

¹H NMR: Consistent with structure **Mass Spectrum:** Consistent with structure **UV Spectrum:** Consistent with structure

555 nm (Ethanol + 0.1% TFA) λ_{max} : λ_{ex} : 555 nm (Ethanol + 0.1% TFA) 576 nm (Ethanol + 0.1% TFA) λ_{em} :

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

Tel: +44 (0)1235 529449



Product Information

Print Date: Dec 1st 2025

Batch No.: 1

www.tocris.com

Product Name: Janelia Fluor® 549, Haloalkane

CAS Number: 1811539-33-9

IUPAC Name: 2-(3-(Azetidin-1-ium-1-ylidene)-6-(azetidin-1-yl)-3*H*-xanthen-9-yl)-4-((2-(2-((6-chlorohexyl)oxy)ethoxy)ethyl)

carbamoyl)benzoate

Description:

Key Information: Janelia Fluor® 549, Haloalkane is a yellow cell-permeable fluorogenic fluorescent dye with a chloroalkane handle. Application: Live-cell imaging as a self-labeling tag substrate. Suitable for confocal microscopy, light sheet microscropy, super resolution microscopy (SRM) techniques including dSTORM (in both live and fixed cells). Stable to fixation. Cell permeable. Properties and Photophysical Data: Janelia Fluor® 549, Haloalkane shows a high degree of fluorogenicity. Excitation and emission maxima (λ) are 549 nm and 571 nm, respectively; quantum yield = 0.88. Janelia Fluor® is a registered trademark of Ho... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

Batch Molecular Weight: 660.21 Physical Appearance: Purple 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.: 8806

Solubility & Usage Info:

DMSO to 10 mM

This product is supplied in lyophilized form. It may appear as a solid, gel or film and be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

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 (2017) A general method to fine-tune fluorophores for live-cell and in vivo imaging. Nat.Methods 14 987. PMID: 28869757.