bio-techne
TOCRIS

Print Date: Dec 1st 2025

Certificate of Analysis

www.tocris.com

Product Name: **PA Janelia Fluor® 549, Haloalkane** **Catalog No.: 8814** **Batch No.: 1**

CAS Number: 1811539-43-1

IUPAC Name: 3',6'-Bis(1-azetidinyl)-*N*-[2-[2-[(6-chlorohexyl)oxy]ethoxy]ethyl]-2-diazo-2,3-dihydro-3-oxospiro[1*H*-indene-1,9'-[9*H*]xanthene]-6-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{38}H_{42}ClN_5O_5$

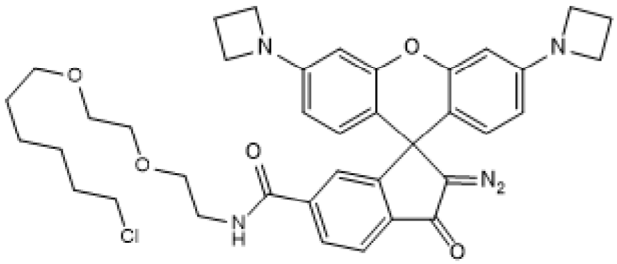
Batch Molecular Weight: 684.23

Physical Appearance: Yellow solid

Solubility: DMSO to 10 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 93.1% purity at 240 nm

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

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Description:

Key Information: PA Janelia Fluor® 549, Haloalkane is a yellow cell-permeable photoactivable fluorescent dye with a chloroalkane handle for labeling fusion tag proteins. Application: Live-cell imaging as a self-labeling tag substrate. Suitable for confocal microscopy, super-resolution microscopy (SRM) techniques including PALM (in both live and fixed cells). Allows multicolor single tracking experiments. Properties and Photophysical Data: PA Janelia Fluor® 549, Haloalkane shows superior brightness and photostability. Janelia Fluor® is a registered trademark of Howard Hughes Medical Institute.

Physical and Chemical Properties:

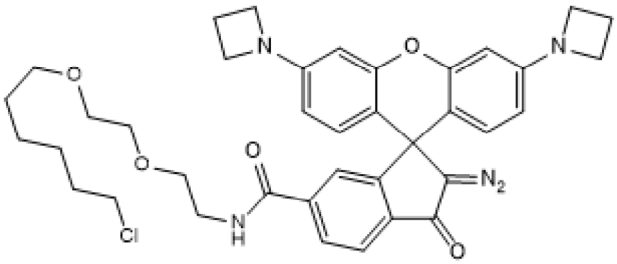
Batch Molecular Formula: $C_{38}H_{42}ClN_5O_5$

Batch Molecular Weight: 684.23

Physical Appearance: Yellow 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.

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* (2016) Bright photoactivatable fluorophores for single-molecule imaging Nat.Methods ***13*** 985. PMID: 27776112.