

Product Name: Janelia Fluor® 549, Tetrazine

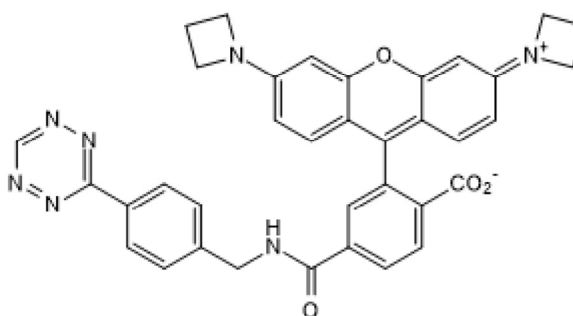
Catalog No.: 6502

Batch No.: 1

IUPAC Name: 3,6-Di-1-azetidinyl-9-[[4-[(1,2,4,5-tetrazin-3-yl)benzyl]carbamoyl]-2-carboxyphenyl]xanthylium, inner salt

## 1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C <sub>36</sub> H <sub>29</sub> N <sub>7</sub> O <sub>4</sub>
Batch Molecular Weight:	623.66
Physical Appearance:	Purple solid
Solubility:	DMSO to 10 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



## 2. ANALYTICAL DATA

HPLC:	Shows 94.4% purity
<sup>1</sup> H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure

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

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**Description:**

**Key Information:** Janelia Fluor® 549, Tetrazine is a yellow fluorescent dye; supplied with a tetrazine reactive handle for copper-free click chemistry. Suitable for live-cell imaging. **Application:** Suitable for confocal microscopy and super resolution microscopy (SRM) techniques including dSTORM (in both live and fixed cells) and STED. Janelia Fluor® 549, tetrazine is cell permeable. It can be coupled directly to a protein of interest using bioorthogonal chemistry and unnatural amino acid technology and has been used in this way to label living primary neurons. **Properties and Photophysical Data:** Excitation and emission maxima (λ) ... Please see product specific page on www.tocris.com for full description.

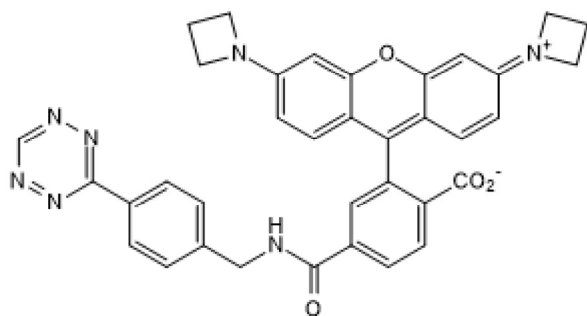
**Physical and Chemical Properties:**

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**References:**

**Arsic et al** (2022) Minimal genetically encoded tags for fluorescent protein labeling in living neurons. *Nat. Commun.* **13**. PMID: 35031604.

**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

**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

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