

Certificate of Analysis

www.tocris.com

Product Name: PA Janelia Fluor® 549, NHS ester

Catalog No.: 6149

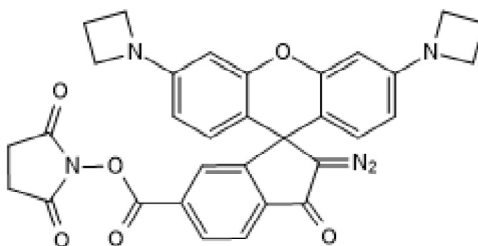
Batch No.: 2

CAS Number: 1811539-42-0

IUPAC Name: 2,5-Dioxo-1-pyrrolidinyl 3',6'-di-1-azetidiny-2-diazo-2,3-dihydro-3-oxospiro[1*H*-indene-1,9'-[9*H*]xanthene]-6-carboxylate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₂H₂₅N₅O₆
Batch Molecular Weight: 575.58
Physical Appearance: Orange solid
Solubility: DMSO to 10 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 97.8% purity at 240 nm
¹H 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: PA Janelia Fluor® 549, NHS ester is a yellow photoactivatable fluorescent dye; supplied with an NHS ester reactive group for the labeling of primary amines. Suitable for live and fixed cell imaging. Application: Suitable for single molecule tracking and super resolution microscopy (SRM) in live cells, specifically sptPALM (live cells) and PALM (fixed cells) techniques. Properties and Photophysical Data: Non-fluorescent until activated at 405 nm. NHS ester can be converted to relevant substrate for use in self-labeling tag systems, e.g. HaloTag® and SNAP-tag®. Can be multiplexed with PA Janelia Fluor® 646, N... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

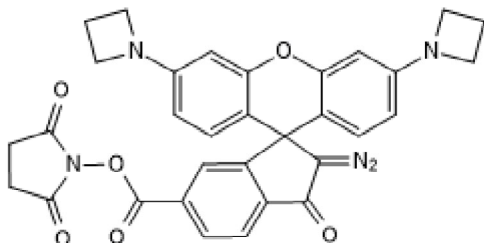
Batch Molecular Formula: C₃₂H₂₅N₅O₆

Batch Molecular Weight: 575.58

Physical Appearance: Orange solid

Minimum Purity: ≥90%

Batch Molecular Structure:



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 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

References:

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

Li et al (2016) Real-time imaging of Huntingtin aggregates diverting target search and gene transcription. *eLife* **5** e17056. PMID: 27484239.

Hong et al (2009) Phosphorylation of the RNA polymerase II C-terminal domain by TFIIH kinase is not essential for transcription of *Saccharomyces cerevisiae* genome. *Proc.Natl.Acad.Sci.USA*. **106** 14276. PMID: 19666497.

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