

Product Name: PA Janelia Fluor[®] 646, NHS ester

Catalog No.: 6150

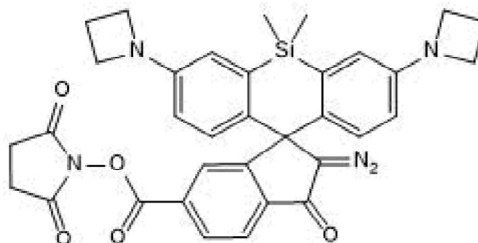
Batch No.: 4

CAS Number: 2093120-32-0

IUPAC Name: 2,5-Dioxo-1-pyrrolidinyl 3,7-di-1-azetidiny-2'-diazo-5,5-dimethyl-2',3'-dihydro-5H-3'-oxospiro[dibenzo[b,e]silole-10,1'-indene]-6'-carboxylate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₃₄ H ₃₁ N ₅ O ₅ Si
Batch Molecular Weight:	617.74
Physical Appearance:	Dark orange solid
Solubility:	DMSO to 20 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 99.0% purity at 226 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® 646, NHS ester is a 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 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® 549, NHS ester (Cat.... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

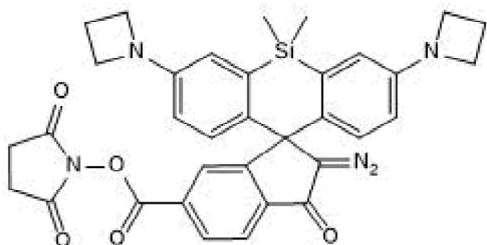
Batch Molecular Formula: C₃₄H₃₁N₅O₅Si

Batch Molecular Weight: 617.74

Physical Appearance: Dark orange solid

Minimum Purity: ≥90%

Batch Molecular Structure:



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.

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 20 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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