



Certificate of Analysis

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Product Name: Janelia Fluor® 646, Azide Catalog No.: 7088 Batch No.: 2

azidoethoxy)ethoxy)ethoxy)ethyl)carbamoyl)benzoate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₇H₄₄N₆O₆Si

Batch Molecular Weight: 696.88

Physical Appearance: Pale green solid

Solubility: DMF to 50 mM

Storage: Store at -20°C

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 99.7% purity at 655 nm

 1 H NMR:Consistent with structureMass Spectrum:Consistent with structureUV Spectrum:Consistent with structure λ_{max} :656 nm (RPM-00035) λ_{ex} :656 nm (RPM-00035)

 λ_{em} : 669 nm (RPM-00035)

Product Information

Print Date: Nov 13th 2024

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Product Name: Janelia Fluor[®] 646, Azide Catalog No.: 7088 2

azidoethoxy)ethoxy)ethoxy)ethyl)carbamoyl)benzoate

Description:

Key Information: Janelia Fluor® 646, Azide is a red fluorogenic fluorescent dye, supplied with an azide 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. Can be multiplexed for two color imaging with Janelia Fluor® 549 SE (Cat. No. 6147). Cell permeable. Properties and Photophysical Data: Excitation and emission maxima (λ) are 646 nm and 664 nm, respectively; quantum yield = 0.54; extinction coefficient = 152,000 M-1cm-1 (measured in ethanol plus... Please see product specific page on www.tocris.com for full description.

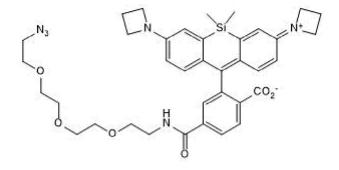
Physical and Chemical Properties:

Batch Molecular Formula: C₃₇H₄₄N₆O₆Si Batch Molecular Weight: 696.88

Physical Appearance: Pale green solid

Minimum Purity: ≥95%

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:

DMF to 50 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:

Zheng et al (2019) Rational design of fluorogenic and spontaneously blinking labels for super-resolution imaging. ACS Cent.Sci. **5** 1602. PMID: 31572787.

Grimm *et al* (2015) A general method to improve fluorophores for live-cell and single-molecule microscopy. Nat Methods. *12* 244. PMID: 25599551.

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