

Batch No.: 1



Certificate of Analysis

www.tocris.com

Product Name: Hoechst Janelia Fluor® 646 Catalog No.: 6804

CAS Number: 2462011-60-3

IUPAC Name: 2-(3-(Azetidin-1-ium-1-ylidene)-7-(azetidin-1-yl)-5,5-dimethyl-3,5-dihydrodibenzo[b,e]silin-10-yl)-4-((2-(2-(4-(4-(5-

(4-methylpiperazin-1-yl)-1H,3'H-[2,5'-bibenzo]d|imidazol]-2'-yl)phenoxy)butanamido)ethoxy)ethoxy)ethyl)carbamoyl)

benzoate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{64}H_{70}N_{10}O_7Si$

Batch Molecular Weight: 1119.39 **Physical Appearance:** Blue solid

Solubility: DMSO to 10 mM Storage: Store at -20°C

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 89.8% purity at 664 nm

¹H NMR:Consistent with structureMass Spectrum:Consistent with structureUV Spectrum:Consistent with structure

 λ_{max} : 665 nm (Ethanol + 0.1% TFA) λ_{ex} : 665 nm (Ethanol + 0.1% TFA) λ_{em} : 670 nm (Ethanol + 0.1% TFA)

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



Product Information

Print Date: Dec 2nd 2024

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benzoate

Description:

Key information: Hoechst Janelia Fluor® 646 is a fluorogenic redemitting DNA probe. Suitable for fixed and live-cell imaging. Application:confocal microscopy, super resolution microscopy (SRM) (including PALM and PAINT), lattice light sheet microscopy. Properties and Photophysical Data: Hoechst Janelia Fluor® 646 preferentially stains and binds minor groove of ATrich regions. The compound can be combined with fluorogenic green-emitting DNA probe Hoechst Janelia Fluor® 526 (Cat. No. 7313) for multiplexing experiments. Hoechst Janelia Fluor® 646 can also be combined with Hoechst Janelia Fluor® 526 to perform dual-color ... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{64}H_{70}N_{10}O_7Si$ Batch Molecular Weight: 1119.39 Physical Appearance: Blue solid

Minimum Purity: ≥85%

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

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 $^{\circ}$ 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:

Spahn et al (2019) Whole-Calltidh, and multiplexed Epigeaging with exchange able fluor appropriet language of the E. coli nucleoid and membrane using novel PAINT labels.

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China

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Rest of World

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