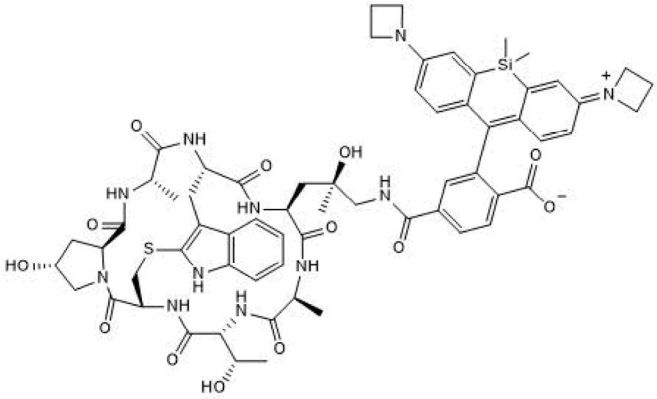
Product Name: **Phalloidin-Janelia Fluor® 646** **Catalog No.: 7201** **Batch No.: 1**

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	$C_{64}H_{75}N_{11}O_{13}SSi$
Batch Molecular Weight:	1266.51
Physical Appearance:	Blue solid
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 90.5% purity at 657 nm
Mass Spectrum:	Consistent with structure

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Product Name: **Phalloidin-Janelia Fluor® 646** **Catalog No.: 7201** **1**

Description:

Key information: Phalloidin-Janelia Fluor® 646 is a red fluorescent F-actin probe. It binds and labels specifically F-actin. Used for: Phalloidin-Janelia Fluor® 646 can be used to visualize and quantify F-actin in tissue sections, cell cultures or cell-free experiments with optimal results in formaldehyde-fixed and permeabilized cells. Application: confocal microscopy, super-resolution microscopy (SRM) including dSTORM and STED and flow cytometry. Properties and Photophysical Data: Phalloidin-Janelia Fluor® 646 is composed of the F-actin probe, Phalloidin (Cat. No. 4535), conjugated to Janelia Fluor® 646 (Cat. No. 6148). ... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

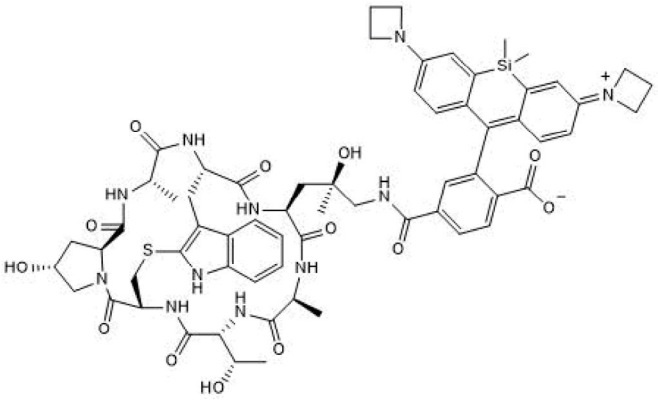
Batch Molecular Formula: $C_{64}H_{75}N_{11}O_{13}SSi$

Batch Molecular Weight: 1266.51

Physical Appearance: Blue solid

Minimum Purity: ≥90%

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:

This product is supplied in lyophilized form. It may appear as a solid, gel or film and be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

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

Cooper *et al* (1987) Effects of cytochalasin and phalloidin on actin. J.Cell.Biol. ***105*** 1473. PMID: 3312229.

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