Certificate of Analysis

Product Name: **Taxol-Janelia Fluor ® 549** **Catalog No.: 6267** **Batch No.: 1**

IUPAC Name: 2-(3-(Azetidin-1-ium-1-ylidene)-6-(azetidin-1-yl)-3*H*-xanthen-9-yl)-4-(((2*S*)-1-(((2a*R*,4*S*,4a*S*,6*R*,9*S*,11*S*,12*S*,12b*S*)-6,12b-diacetoxy-9-(((2*R*,3*S*)-3-benzamido-2-hydroxy-3-phenylpropanoyl)oxy)-12-(benzoyloxy)-11-hydroxy-4a,8,13,13-tetramethyl-5-oxo-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-1*H*-7,11-methanocyclodeca[3,4]benzo[1,2-*b*]oxet-4-yl)oxy)-1-oxopropan-2-yl)carbamoyl)benzoate formate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{77}H_{76}N_4O_{19}.HCOOH$

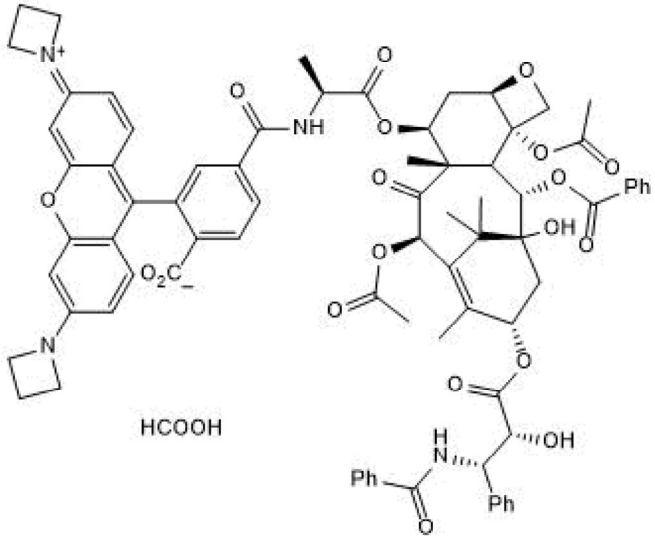
Batch Molecular Weight: 1407.49

Physical Appearance: Purple solid

Solubility: DMSO to 10 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows >90% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

UV Spectrum: Consistent with structure

λ_{max}: 560 nm (PBS Buffer pH 7.4)

λ_{ex}: 556 nm (PBS Buffer pH 7.4)

λ_{em}: 576 nm (PBS Buffer pH 7.4)

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Description:

Key information: Taxol Janelia Fluor® 549 is a yellow-fluorescent taxol derivative for imaging of the microtubule cytoskeleton. Used for: microtubule cytoskeleton imaging. Application: flow cytometry, confocal microscopy, super resolution microscopy (SRM). Properties and Photophysical Data: Excitation and emission maxima (λ) are 556 nm and 575 nm, respectively. For more information on how Taxol-Janelia Fluor® 549 may be used, see our protocol. Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

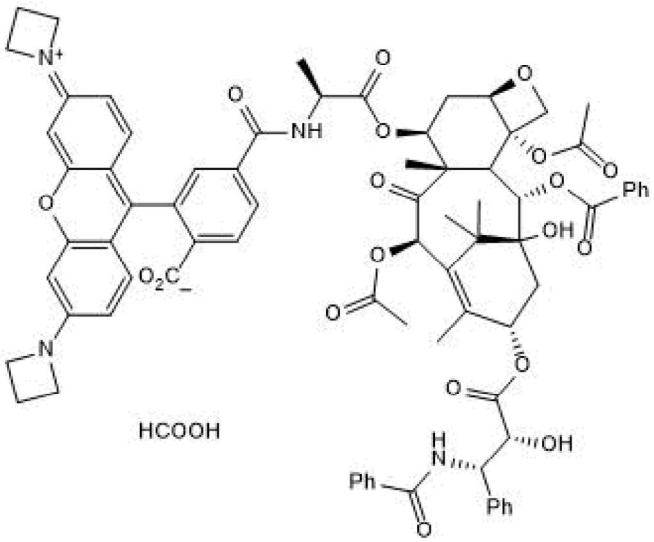
Batch Molecular Formula: $C_{77}H_{76}N_4O_{19}$.HCOOH

Batch Molecular Weight: 1407.49

Physical Appearance: Purple 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:

DMSO to 10 mM

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

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