

Product Name: Flutax 2

Catalog No.: 6254

Batch No.: 2

CAS Number: 301844-13-3

IUPAC Name: (2a*R*,4*S*,4a*S*,6*R*,9*S*,11*S*,12*S*,12a*R*,12b*S*)-6,12b-Bis(acetyloxy)-9-[(2*R*,3*S*)-3-(benzoylamino)-2-hydroxy-1-oxo-3-phenylpropoxy]-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-11-hydroxy-4a,8,13,13-tetramethyl-5-oxo-7,11-methano-1*H*-cyclodeca[3,4]benz[1,2-*b*]oxet-4-yl ester *N*-[(2',7'-difluoro-3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3*H*),9'-[9*H*]xanthen]-5-yl)carbonyl]-L-alanine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₇₁H₆₄F₂N₂O₂₁

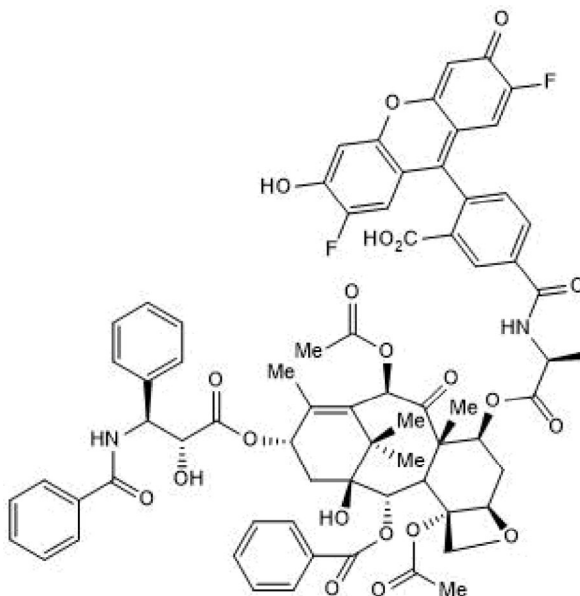
Batch Molecular Weight: 1319.28

Physical Appearance: Orange solid

Solubility: DMSO to 1 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 93.0% purity

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

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2

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IUPAC Name: (2*a*R,4*S*,4*a*S,6*R*,9*S*,11*S*,12*S*,12*a*R,12*b*S)-6,12*b*-Bis(acetyloxy)-9-[(2*R*,3*S*)-3-(benzoylamino)-2-hydroxy-1-oxo-3-phenylpropoxy]-12-(benzoyloxy)-2*a*,3,4,4*a*,5,6,9,10,11,12,12*a*,12*b*-dodecahydro-11-hydroxy-4*a*,8,13,13-tetramethyl-5-oxo-7,11-methano-1*H*-cyclodeca[3,4]benz[1,2-*b*]oxet-4-yl ester *N*-[(2',7'-difluoro-3',6'-dihydroxy-3-oxospiro [isobenzofuran-1(3*H*),9'-[9*H*]xanthen]-5-yl)carbonyl]-L-alanine

Description:

Key information: Flutax 2 is a green-fluorescent taxol derivative; for microtubules labeling in live cells. Used for: imaging microtubules in live cells, isolated cytoskeletons and microtubule suspensions. Application: fluorescence microscopy. Properties and Photophysical Data: The fluorescent label on Flutax 2 is attached by derivatization of the 7-β-hydroxy group of native paclitaxel which permits selective binding of the probe to microtubules. Flutax 2 binds microtubules with high affinity ($K_a \sim 10^7 M^{-1}$). Flutax 2 binds to α, β tubulin dimers and stabilizes them. Flutax 2 is soluble and pH insensitive and is more photostab... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

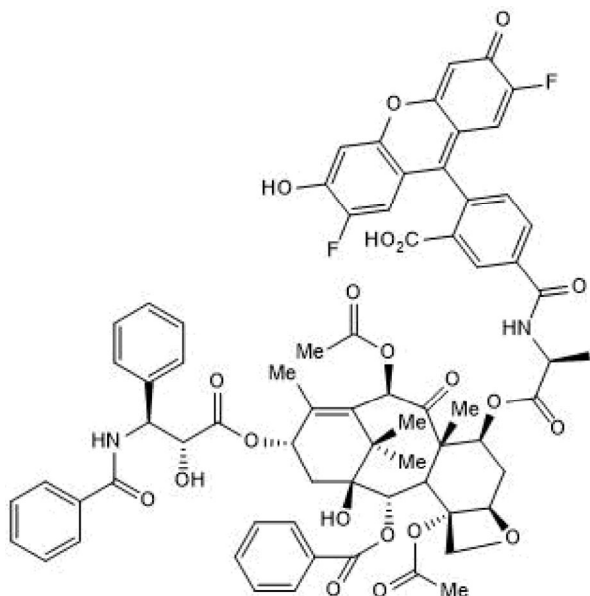
Batch Molecular Formula: C₇₁H₆₄F₂N₂O₂₁

Batch Molecular Weight: 1319.28

Physical Appearance: Orange 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 1 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.

References:

Lillo *et al* (2002) Location and properties of the Tax₁ binding center in microtubules: a picosecond laser study with fluorescent taxoids. *Biochemistry*. **41** 12436. PMID: 12369834. Caution: Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

Diaz *et al* (2000) Molecular recognition of Tax₁ by microtubules. Kinetics and thermodynamics of binding of fluorescent Tax₁ derivatives to an exposed site. *J.Biol.Chem.* **275** 26265. PMID: 10818101.

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