

Product Name: Flutax 1

Catalog No.: 2226

Batch No.: 1

CAS Number: 191930-58-2

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*-[(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: C₇₁H₆₆N₂O₂₁·3H₂O

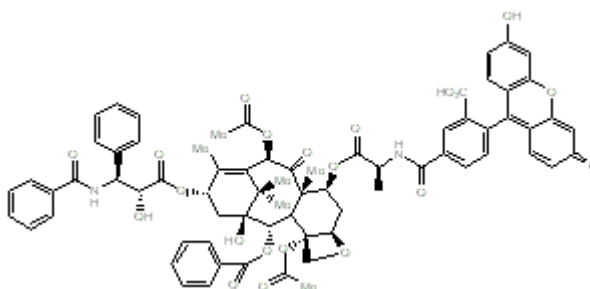
Batch Molecular Weight: 1337.35

Physical Appearance: Orange solid

Solubility: DMSO to 100 mM
ethanol to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.27 (Chloroform:Methanol [10:1])

HPLC: Shows >99.5% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 63.77 | 5.43 | 2.09 |
| Found | 63.55 | 5.11 | 2.08 |

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

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Description:

A fluorescent taxol derivative that binds to the taxol microtubule binding site with high affinity ($K_a \sim 10^7 M^{-1}$). Useful for direct imaging of the microtubule cytoskeleton. Excitation maximum ~ 495 nm; emission maximum ~ 520 nm.

Physical and Chemical Properties:

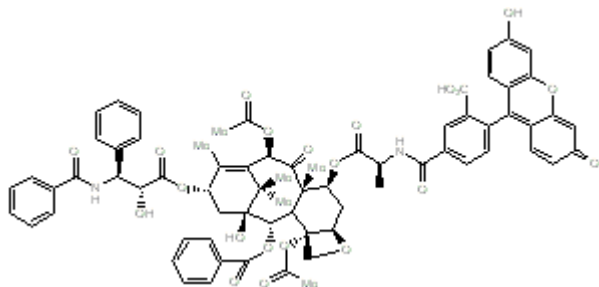
Batch Molecular Formula: $C_{71}H_{66}N_2O_{21} \cdot 3H_2O$

Batch Molecular Weight: 1337.35

Physical Appearance: Orange solid

Minimum Purity: >98%

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 100 mM
ethanol to 100 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. Our standard recommendations are:

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.

Other Information:

This product is supplied as a lyophilised solid and may be very hard to visualise. 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.

References:

Evangelio et al (1998) Fluorescent taxoids as probes of the microtubule cytoskeleton. *Cell Motil.Cytoskel.* **39** 73.

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

Diaz et al (2003) Fast kinetics of taxol binding to microtubules. *J.Biol.Chem.* **278** 8407. PMID: 12496245.

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