

Certificate of Analysis

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Product Name: Fostriecin sodium salt

Catalog No.: 1840

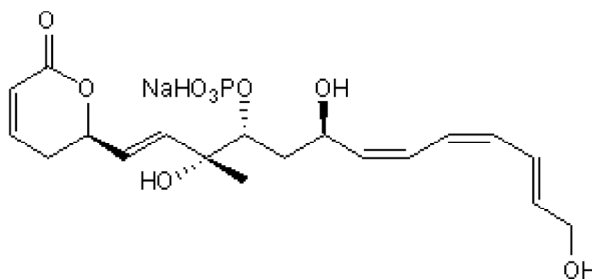
Batch No.: 1

CAS Number: 87860-39-7

IUPAC Name: (6*R*)-5,6-Dihydro-6-[(1*E*,3*R*,4*R*,6*R*,7*Z*,9*Z*,11*E*)-3,6,13-trihydroxy-3-methyl-4-(phosphonoxy)-1,7,9,11-tridecatetraenyl]-2*H*-pyran-2-one sodium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₁₉ H ₂₆ O ₉ PNa
Batch Molecular Weight:	452.37
Physical Appearance:	Colourless lyophilised solid
Solubility:	water to 100 mM
Storage:	Desiccate at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows >98% purity
Mass Spectrum:	Consistent with structure

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

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Description:

Fostriecin sodium salt is a potent inhibitor of protein phosphatase types 2A (PP2A) and 4 (PP4) with IC₅₀ values of 1.5 nM and 3 nM respectively. Also exhibits weaker inhibition of topoisomerase II (IC₅₀ = 40 µM) and protein phosphatase type 1 (PP1) (IC₅₀ = 131 µM) with no apparent inhibition of protein phosphatase type 2B (PP2B). Active in vivo. Originally identified as an antitumor antibiotic from *Streptomyces pulveraceus*.

Physical and Chemical Properties:

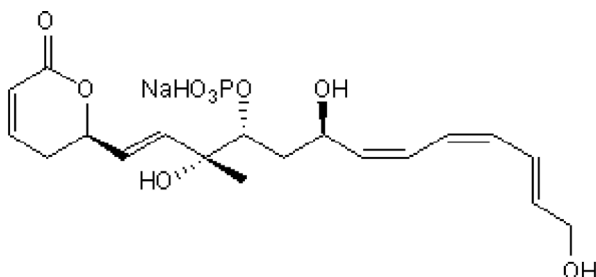
Batch Molecular Formula: C₁₉H₂₆O₉PNa

Batch Molecular Weight: 452.37

Physical Appearance: Colourless lyophilised solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Desiccate at -20°C. This product is packaged under an inert atmosphere.

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:

water to 100 mM

CAUTION- While this product is soluble in water, optimal stability is achieved by preparing aqueous buffered solutions at pH 6.5. Hydrolysis of the phosphate ester and loss of activity may result from inappropriate storage of this product. 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:

Hastie and Cohen (1998) Purification of protein phosphatase 4 catalytic subunit: inhibition by the antitumour drug fostriecin and other tumour suppressors and promoters. *FEBS Lett.* **431** 357. PMID: 9714542.

Walsh et al (1997) Fostriecin, an antitumor antibiotic with inhibitory activity against serine/threonine protein phosphatases types 1 (PP1) and 2A (PP2A), is highly selective for PP2A. *FEBS Lett.* **416** 230. PMID: 9373158.

Tunac et al (1983) Novel antitumor agents CI-920, PD 113,270 and PD 113,271. I. Taxonomy, fermentation and biological properties. *J.Antibiot.* **36** 1595. PMID: 6689323.

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