

Product Name: Bryostatin 3

Catalog No.: 5238

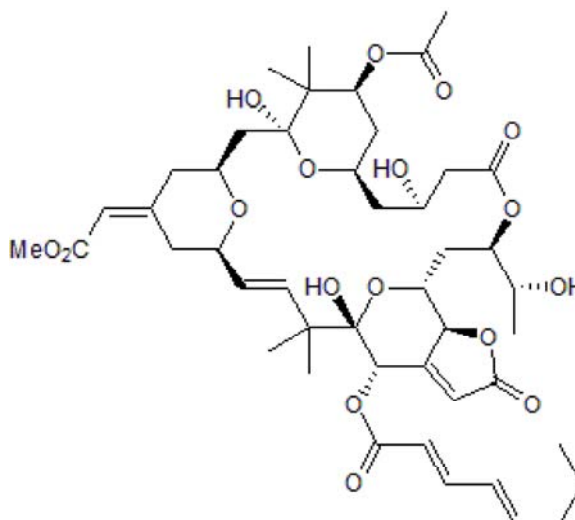
Batch No.: 1

CAS Number: 143370-84-7

IUPAC Name: (4*S*,5*S*,7*E*,9*R*,11*Z*,13*S*,15*S*,17*S*,19*R*,21*R*,25*R*,27*R*,27*aS*)-17-(Acetyloxy)-4,5,6,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,25,26,27,27*a*-docosahydro-5,15,21-trihydroxy-25-[(1*R*)-1-hydroxyethyl]-11-(2-methoxy-2-oxoethylidene)-6,6,16,16-tetramethyl-2,23-dioxo-5,27:9,13:15,19-triepoxy-2*H*-furo[2,3-*e*]oxacyclohexacosin-4-yl-(2*E*,4*E*)-2,4-octadienoic acid ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₄₆ H ₆₄ O ₁₇
Batch Molecular Weight:	888.99
Physical Appearance:	White lyophilised solid
Solubility:	Soluble in ethanol
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 96.5% purity
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Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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CAS Number: 143370-84-7

IUPAC Name: (4S,5S,7E,9R,11Z,13S,15S,17S,19R,21R,25R,27R,27aS)-17-(Acetyloxy)-4,5,6,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,25,26,27,27a-docosahydro-5,15,21-trihydroxy-25-[(1R)-1-hydroxyethyl]-11-(2-methoxy-2-oxoethylidene)-6,6,16,16-tetramethyl-2,23-dioxo-5,27:9,13:15,19-triepoxy-2H-furo[2,3-e]oxacyclohexacosin-4-yl-(2E,4E)-2,4-octadienoic acid ester

Description:

Bryostatin 3 is a potent protein kinase C activator ($K_i = 2.75$ nM). Attenuates phorbol 12-myristate 13-acetate (Cat. No. 1201) inhibition of GH4C1 pituitary cell proliferation in vitro.

Physical and Chemical Properties:

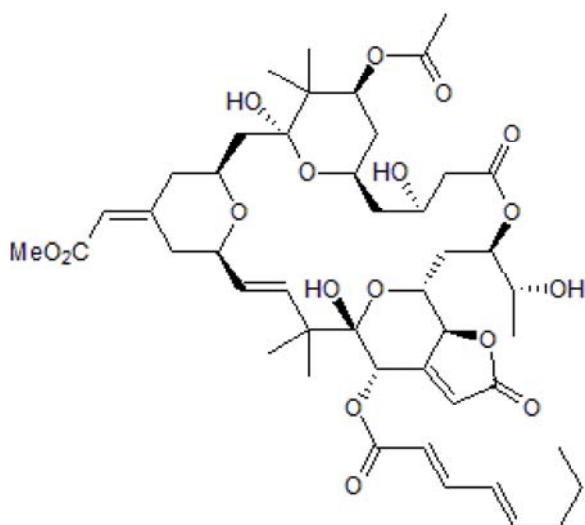
Batch Molecular Formula: $C_{46}H_{64}O_{17}$

Batch Molecular Weight: 888.99

Physical Appearance: White lyophilised solid

Minimum Purity: $\geq 95\%$

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:

Soluble in ethanol

This product is supplied as a lyophilized solid and may 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 $45-60^{\circ}\text{C}$ 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.

References:

Mackanos et al (1991) BryoSTAT selectively regulate protein kinase C-mediated effects on GH4 cell proliferation. *J.Biol.Chem.* **266** 1120. PMID: 1904062.

Wender et al (1988) Modeling of the bryoSTAT to the phorbol ester pharmacophore on protein kinase C. *Proc.Natl.Acad.Sci.U.S.A.* **85** 7197. PMID: 3174627.

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