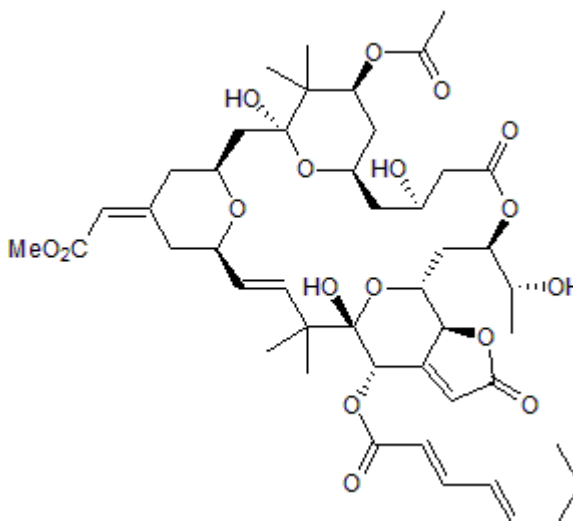


<b>Product Name:</b>	<b>Bryostatin 3</b>	<b>Catalog No.:</b>	<b>5238</b>	<b>Batch No.:</b>	<b>1</b>
<b>CAS Number:</b>	143370-84-7				
<b>IUPAC Name:</b>	(4S,5S,7E,9R,11Z,13S,15S,17S,19R,21R,25R,27R,27aS)-17-(Acetyloxy)-4,5,6,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,25,26,27,27a-docosahydro-5,15,21-trihydroxy-25-[(1R)-1-hydroxyethyl]-11-(2-methoxy-2-oxoethylidene)-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				

## 1. PHYSICAL AND CHEMICAL PROPERTIES

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



## 2. ANALYTICAL DATA

<b>HPLC:</b>	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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SYSTEMS®

<b>Product Name:</b>	<b>Bryostatin 3</b>	<b>Catalog No.:</b>	<b>5238</b>	<b>Batch No.:</b>	<b>1</b>
<b>CAS Number:</b>	143370-84-7				
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**Description:**

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:**

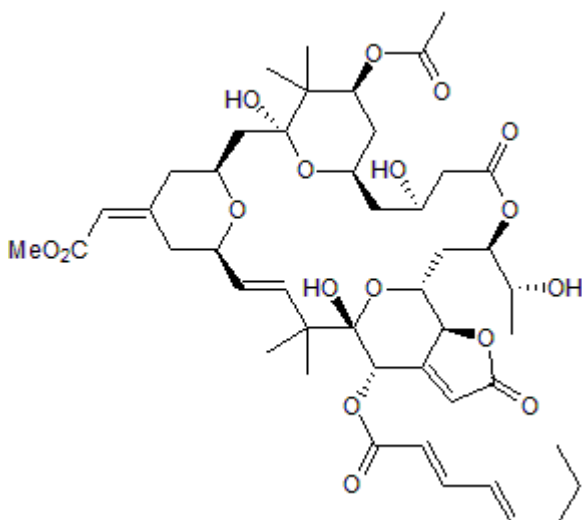
Batch Molecular Formula:  $C_{46}H_{64}O_{17}$

Batch Molecular Weight: 888.99

Physical Appearance: White lyophilised solid

**Minimum Purity:** >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

**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.

**References:**

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

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

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