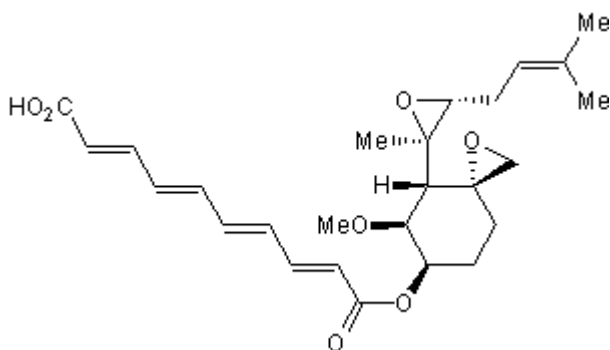


Product Name:	Fumagillin	Catalog No.:	1768	Batch No.:	2
CAS Number:	23110-15-8	EC Number:	245-433-8		
IUPAC Name:	(2 <i>E</i> ,4 <i>E</i> ,6 <i>E</i> ,8 <i>E</i>)-Mono[(3 <i>R</i> ,4 <i>S</i> ,5 <i>S</i> ,6 <i>R</i>)-5-methoxy-4-[(2 <i>R</i> ,3 <i>R</i>)-2-methyl-3-(3-methyl-2-butenyl)oxiranyl]-1-oxaspiro[2.5]oct-6-yl] 2,4,6,8-decatetraenedioic acid ester				

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₆H₃₄O₇
Batch Molecular Weight: 458.55
Physical Appearance: White lyophilised solid
Solubility: ethanol to 3 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Between 194 - 197°C
HPLC: Shows >95.1% purity

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

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Catalog No.: 1768

Batch No.: 2

CAS Number: 23110-15-8

EC Number: 245-433-8

IUPAC Name: (2E,4E,6E,8E)-Mono[(3R,4S,5S,6R)-5-methoxy-4-[(2R,3R)-2-methyl-3-(3-methyl-2-butenyl)oxiranyl]-1-oxaspiro[2.5]oct-6-yl] 2,4,6,8-decatetraenedioic acid ester

Description:

Antibiotic and antiangiogenic agent; covalently binds and inhibits methionine aminopeptidase-2. Inhibits endothelial cell proliferation in vitro and tumor-induced angiogenesis in vivo. Also inhibits tumor growth in mice.

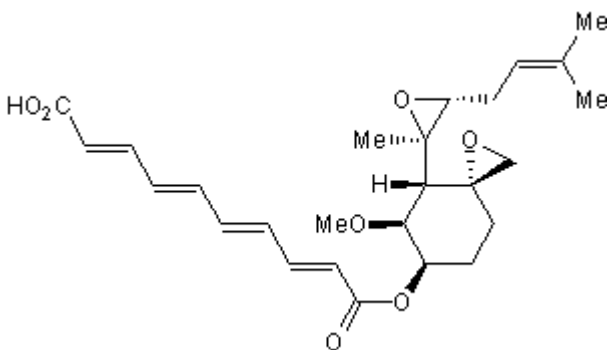
Physical and Chemical Properties:

Batch Molecular Formula: C₂₆H₃₄O₇

Batch Molecular Weight: 458.55

Physical Appearance: White lyophilised solid

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:

ethanol to 3 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.

References:

Rodriguez-Nieto et al (2001) A re-evaluation of fumagillin selectivity towards endothelial cells. *Anticancer Res.* **21** 3457. PMID: 11848509.

Lowther et al (1998) The anti-angiogenic agent fumagillin covalently modifies a conserved active-site histidine in the *Escherichia coli* methionine aminopeptidase. *Proc.Natl.Acad.Sci.U.S.A.* **95** 12153. PMID: 9770455.

Ingber et al (1990) Synthetic analogues of fumagillin that inhibit angiogenesis and suppress tumour growth. *Nature* **348** 555. PMID: 1701033.

Jaronski (1972) Cytochemical evidence for RNA synthesis inhibition by fumagillin. *J.Antibiot.* **25** 327. PMID: 4630977.

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