

Product Name: Chaetoglobosin A

Catalog No.: 5804

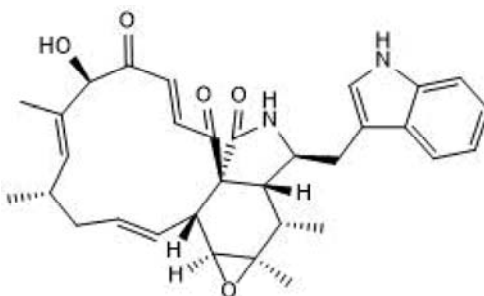
Batch No.: 1

CAS Number: 50335-03-0

IUPAC Name: (1*E*,4*S*,5*E*,7*R*,9*E*,11*aR*,14*S*,14*aR*,15*S*,15*aR*,16*aS*,16*bR*)-4,7,14,14*a*,15,15*a*,16*a*,16*b*-Octahydro-7-hydroxy-14-(1*H*-indol-3-ylmethyl)-4,6,15,15*a*-tetramethyl-3*H*-cyclotridec[*d*]oxireno[*fj*]isoindole-8,11,12(13*H*)-trione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₃₂ H ₃₆ N ₂ O ₅
Batch Molecular Weight:	528.64
Physical Appearance:	Pale yellow solid
Solubility:	DMSO to 100 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

Melting Point:	Between 167 - 169°C
HPLC:	Shows 98.5% purity
Mass Spectrum:	Consistent with structure

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

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Description:

Antibiotic; preferentially induces apoptosis in chronic lymphocytic leukemia (CLL) cells over normal B cells. Inhibits actin polymerization and leads to the accumulation of cells in G₂ phase.

Physical and Chemical Properties:

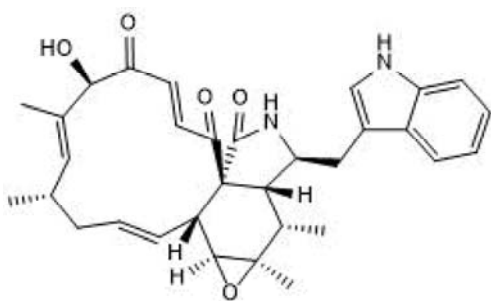
Batch Molecular Formula: C₃₂H₃₆N₂O₅

Batch Molecular Weight: 528.64

Physical Appearance: Pale yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

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°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:

Knudsen *et al* (2014) Chaetoglobosin A preferentially induces apoptosis in chronic lymphocytic leukemia cells by targeting the cytoskeleton. *Leukemia* **28** 1289. PMID: 24280868.

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