

Product Name: 7-Aminoactinomycin D

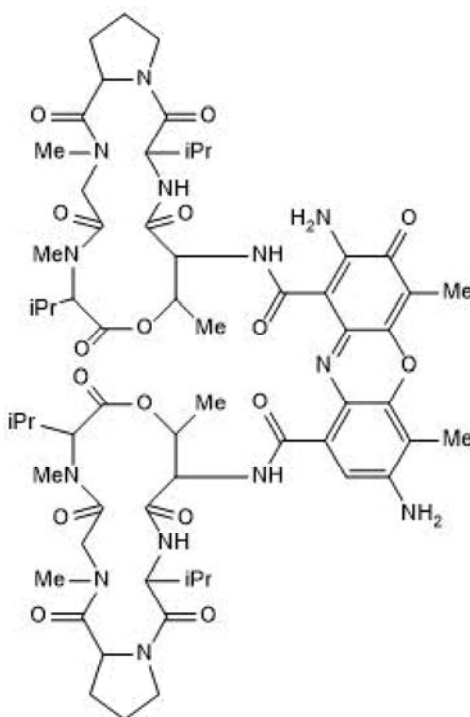
Catalog No.: 7121

Batch No.: 1

CAS Number: 7240-37-1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₆₂H₈₇N₁₃O₁₆
Batch Molecular Weight: 1270.45
Physical Appearance: Dark red solid
Solubility: DMSO to 2 mg/ml
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 97.1% purity
Mass Spectrum: Consistent with structure

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

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Description:

Fluorescent DNA stain. G-C base-specific DNA intercalator that forms stable complexes with DNA. Suitable for use in flow cytometry. Detects apoptotic cells. May be used in combination with FITC (Cat. No. 5440) or phycoerythrin (PE). Fluorescent analogue of actinomycin D (Cat. No. 1229). Excitation/emission maxima (λ) = 488/655 nm.

Physical and Chemical Properties:

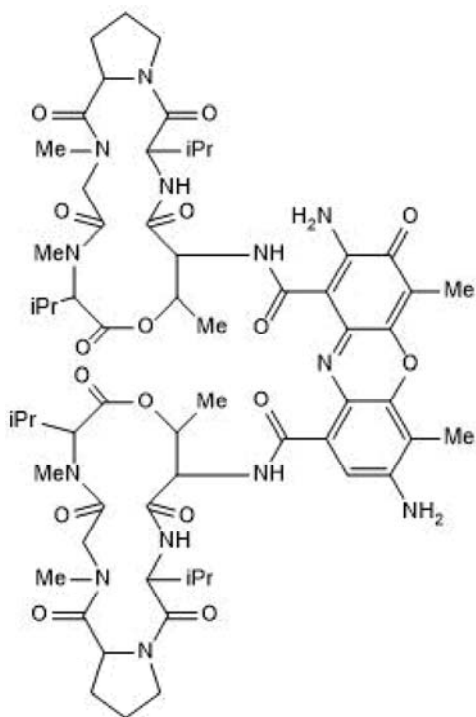
Batch Molecular Formula: $C_{62}H_{87}N_{13}O_{16}$

Batch Molecular Weight: 1270.45

Physical Appearance: Dark red solid

Minimum Purity: $\geq 97\%$

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:

DMSO to 2 mg/ml

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 $45\text{-}60^{\circ}\text{C}$ 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:

Philpott et al (1996) The use of 7-amino actinomycin D in identifying apoptosis: Simplicity of use and broad spectrum of application compared with other techniques. *Blood* **87** 2244. PMID: 8630384.

Schmid et al (1992) Dead cell discrimination with 7-amino-actinomycin D in combination with dual color immunofluorescence in single laser flow cytometry. *Cytometry* **13** 204. PMID: 1547670.

Zelenin et al (1984) 7-Amino-actinomycin D as a specific fluorophore for DNA content analysis by laser flow cytometry. *Cytometry* **5** 348. PMID: 6468175.

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