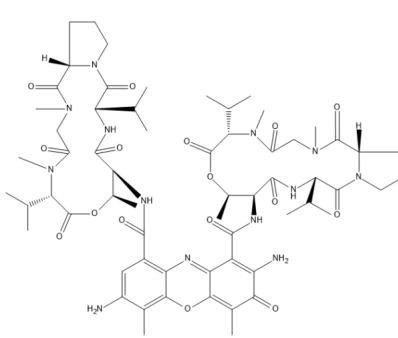


Certificate of Analysis

Catalog Number	BP22571
Product Name	7-Aminoactinomycin D

Physical and Chemical Properties

Synonyms	7-AAD
CAS No.	7240-37-1
Chemical Formula	C ₆₂ H ₈₇ N ₁₃ O ₁₆
Molecular Weight	1270.43
	DMSO: 62.5 mg/mL (348.73 mM, Need ultrasonic and warming and heat to 60°C) H ₂ O: 50 mg/mL (278.99 mM, Need ultrasonic)
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

Product Information

Description	7-Aminoactinomycin D (7-AAD) a fluorescent DNA stain, is a potent RNA polymerase inhibitor. 7-Aminoactinomycin D selectively binds to GC regions of the DNA. 7-Aminoactinomycin D also has antibacterial effects.
In vitro	7-Aminoactinomycin D (7-AAD) is a DNA dye that distinguishes viable, apoptotic, and late apoptotic/dead cells in flow cytometry. 7-Aminoactinomycin D staining with 5 µg/mL, 10 µg/mL, and 20 µg/mL, but not with 1 µg/mL, is suitable for quantification of apoptosis in flow cytometry. 7-Aminoactinomycin D is frequently used to stain and exclude dead cells in flow cytometry at low concentrations (0.5-5 µg/mL). At higher concentrations (10-20 µg/mL), 7-Aminoactinomycin D has also been used to distinguish between viable cells (7-AADnegative) and apoptotic cells (7-AADdim) or dead cells (7-AADbright) using the fact that permeability of the cell membrane, and hence fluorescence intensity, is low in early apoptotic cells and high in late apoptotic and dead cells.

Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

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