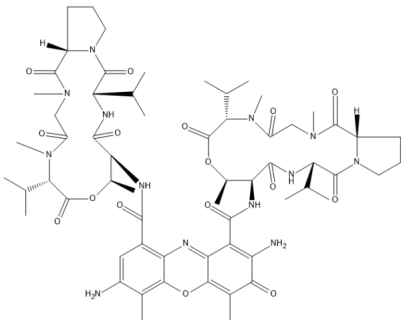


Data Sheet

Product Information

Catalog Number	BP22571
Product Name	7-Aminoactinomycin D
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.
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	

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