
7-AAD, far-red fluorescent nucleic acid stain

<http://www.lumiprobe.com/p/7-aad-nucleic-acid-stain>

7-AAD (7-Aminoactinomycin D) is a fluorescent dye with a strong affinity for GC-rich regions of DNA. 7-AAD does not pass through the intact membrane of live cells, which is commonly used for detecting or excluding apoptotic and dead cells in flow cytometry and fluorescence microscopy. It is also used to stain DNA and nuclei in fixed and permeabilized cells and tissues.

7-AAD fluorescence spectra display a very large Stokes shift with maximum excitation at 488, 546, and 578 nm and maximum emission at 647 nm. 7-AAD is, therefore, compatible with most blue, green, and even many red fluorophores in multicolor applications.

General properties

Appearance: purple powder

Molecular weight: 1270.45

CAS number: 7240-37-1

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

Solubility: DMSO, DMF, DCM, methanol

Quality control: NMR 1H and HPLC-MS (95+%)

Storage conditions: 24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.

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