

# Product Datasheet

## 7-Aminoactinomycin D Solution NBP2-29446

Unit Size: 1 mg

Store at 4C in the dark.

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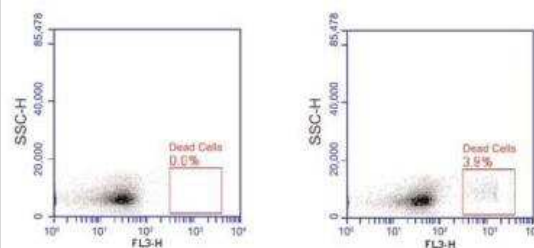
**NBP2-29446****7-Aminoactinomycin D Solution**

| <b>Product Information</b>         |   |
|------------------------------------|---|
| <b>Unit Size</b>                   | 1 mg  |
| <b>Concentration</b>               | Please see the protocols for proper use of this product. If no protocol is available, contact technical services for assistance.  |
| <b>Storage</b>                     | Store at 4C in the dark.  |
| <b>Preservative</b>                | 0.09% Sodium Azide  |
| <b>Buffer</b>                      | PBS and 1.0% FBS  |
| <b>Product Description</b>         |   |
| <b>Description</b>                 | Appearance (Form) Powder<br>Appearance (Color) Red to Dark Purple<br>Solubility (Solvent) Chloroform<br>Solubility (Conc) 0.95 - 1.05 mg/ml<br>Solubility (Turbidity) Clear<br>Solubility (Color) Red<br>Purity (HPLC) > 95.50%   |
| <b>Specificity/Sensitivity</b>     | 7-Aminoactinomycin D Solution<br>Molecular Weight 1270.43   |
| <b>Product Application Details</b> |   |
| <b>Applications</b>                | Flow Cytometry  |
| <b>Recommended Dilutions</b>       | Flow Cytometry  |
| <b>Application Notes</b>           | Fluorescent DNA stain<br>7- Amino-Actinomycin D (7-AAD) can be used as a viability probe for methods of nonviable cell exclusion based on light scatter and uptake of the reagent as detected in FL3. 7-AAD is excluded by viable cells but can penetrate cell membranes of dying or dead cells, in which it intercalates into double stranded nucleic acids. It can be used in place of Propidium Iodide (PI) for omission of nonviable cells in flow cytometric assay. The advantage of 7-AAD over PI is that detection is in the far red range of the spectrum (650 nm long-pass filter) and is read in the FL3, compared to PI detection in FL2. This allows this solution to be used in combination with PE (phycoerythrin), FITC (fluorescein isothiocyanate), and APC (allophycocyanin) conjugated antibodies, as well as any other conjugated antibody that does not emit into FL3. |

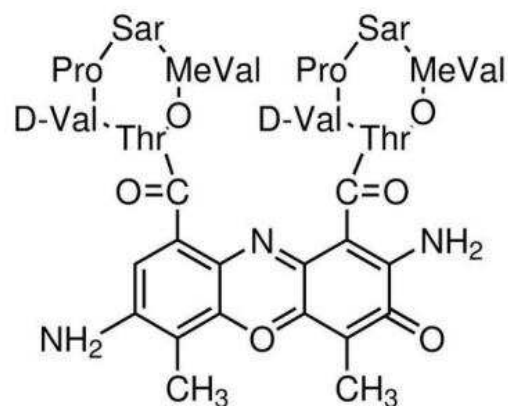


## Images

Flow Cytometry: 7-Aminoactinomycin D Solution [NBP2-29446] - Mouse lymphocytes were unstained (left) or stained (right) with 7-AAD. Without 7-AAD, dead cells cannot be visualized. With 7-AAD, dead cells can be visualized and excluded from further analysis.



7-Aminoactinomycin D Solution [NBP2-29446] - 7-Aminoactinomycin D [NBP2-29446]



## Publications

Kanehira M, Kikuchi T, Santoso A et al. Human marrow stromal cells downsize the stem cell fraction of lung cancers by fibroblast growth factor 10. *Mol. Cell. Biol.* 2014-08-01 [PMID: 24865969] (Flow Cytometry Control, Human)

Details:

Figs 1, 7: H1299, A549, H1975, MCF7, & HeLa cells.

Sakurai Y, Hatakeyama H, Sato Y et al. RNAi-mediated gene knockdown and anti-angiogenic therapy of RCCs using a cyclic RGD-modified liposomal-siRNA system. *J Control Release.* 2014-01-10 [PMID: 24120854] (Flow Cytometry Control, Mouse)



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