Datasheet: 1351303

Description:	PUREBLU™ DAPI
Name:	PUREBLU™ DAPI
Format:	Reagent
Product Type:	Accessory Reagent
Quantity:	250 µg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			1/500
Immunofluorescence	▪			1/500

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Reconstitution

1. Reconstitute one vial of lyophilized PureBlu DAPI Dye with 500 µl of de-ionized water, then vortex briefly to make 100x stock solution.

2. Dilute the 100x stock solution 1:100 with 1x phosphate buffered saline to make a 1 µg/ml staining solution.

Product Information

DAPI is a cell permeable fluorescent compound (MW 350.3) that is able to stain the DNA of eukaryotic and prokaryotic cells by binding with high affinity to the minor groove of AT-rich DNA sequences. When DAPI is bound to DNA and excited by an ultraviolet light source, blue fluorescent emission can be detected with maximum emission at at 461 nm. PureBlu DAPI has a characteristic Stokes shift of approximately 100 nm, which makes this dye an optimal choice when good spectral separation is desired. PureBlu DAPI is compatible with fixed and unfixed cells.

Reagents In The Kit

5 vials, 50 µg each, DAPI nuclear staining dye powder

Instructions For Use

Note: The optimal concentration for different cell types should be determined empirically.

1. Culture cells of interest under appropriate conditions.

2. Rinse cells with 1x phosphate buffered saline.

3. Optional: Fix cells with 3.7% formaldehyde at room temperature (18-25^{o}C) for 10 minutes.

4. Optional: Rinse cells with 1x phosphate buffered saline and permeabilize with 0.1% Triton x-100 in phosphate buffered saline at room temperature (18-25^{o}C) for 5 minutes.

5. Rinse cells with 1x phosphate buffered saline.

6. Stain with 1x staining solution at room temperature (18-25^{o}C) for 15 minutes.

7. Rinse cells with 1x phosphate buffered saline.

8. Optional: Remove phosphate buffered saline and mount cells in antifade-mounting media.

9. Image cells.

Triton is a trademark of Dow Chemical Company.

Storage	Prior to reconstitution store at - 20^{o}C After reconstitution store at +4^{o}C or at -20^{o}C if preferred This product is photosensitive and should be protected from light. PureBlu™ DAPI Dye is stable for 12 months from date of reconstitution if stored at - 20^{o}C or 6 months at 2-8^{o}C.
Guarantee	Guaranteed until date of expiry. Please see product label.
Health And Safety Information	Material Safety Datasheet documentation #1351303 available at: 1351303: https://www.bio-rad-antibodies.com/uploads/MSDS/1351303.pdf
Regulatory	For research purposes only

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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