

KPL DAPI

(4', 6-diamidine-2'-phenylindole, dihydrochloride)

<u>Item No.</u>	<u>Size</u>
5930-0006 (71-03-01)	1.0 mg

DESCRIPTION

KPL DAPI (4',6-diamidine-2'-phenylindole, dihydrochloride) is a fluorescent counterstain which stains the nucleus blue in color. The bright blue fluorescence provides excellent contrast to red fluorochromes such as rhodamine, Cy3, Texas Red, or R-Phycoerythrin.

FORM/STORAGE

KPL DAPI is supplied as a yellow-orange powder. Store powder at 2-8°C. In powdered form, KPL DAPI is stable for a minimum of 1 year from date of receipt.

RECONSTITUTION

Reconstitute KPL DAPI powder with 1.0 mL of reagent quality water to a final concentration of 1.0 mg/mL. The reconstituted stock solution should be stored at -20°C and is stable for approximately 6 months.

APPLICATIONS

KPL DAPI can be used for fluorescent *in situ* hybridization, immunohistochemistry, and flow cytometry.

SUGGESTED PROTOCOL

The dilutions and staining times stated here are offered as suggestions. Due to individual preference for stain intensity, these parameters should be optimized by the user.

Fluorescent *In situ*

Hybridization/Immunohistochemistry:

1. Detect sample using an appropriate fluorescent conjugate.
2. Dilute KPL DAPI stock solution 1:1000 with reagent quality water, (i.e. 1.0 µL DAPI + 999 µL reagent quality water).
3. Apply diluted KPL DAPI generously to the slide and incubate at room temperature for 3-5 minutes in the dark (cover slide with aluminum foil).
4. Rinse the slide for 5-10 seconds in 1X PBS.
5. Mount with KPL Fluorescent Mounting Media or other appropriate mounting media.

SOLUTION PREPARATION

PBS:

To 500 mL reagent quality water, add 8.0 g NaCl, 0.2 g KCl, 1.44 g Na₂HPO₄, and 0.24 g KH₂PO₄. Adjust the pH to 7.4 with HCl. QS to 1 Liter with reagent quality water.

PRODUCT SAFETY AND HANDLING

This product is considered non-hazardous as defined by the Hazard Communication Standard (29 CFR 1910.1200).

Avoid contact with skin and eyes. In case of contact or spillage, flush thoroughly with copious amounts of water.

RELATED PRODUCTS CAT. NO.

KPL Fluorescent Mounting Media	5570-0005 (71-00-16)
KPL Cy3-Labeled Streptavidin	5270-0022 (072-01-30-00)
KPL R-Phycoerythrin-Labeled Streptavidin	5270-0021 (0718-30-00)
KPL Propidium Iodide	5930-0008 (71-04-01)

The product listed herein is for research use only and is not intended for use in human or clinical diagnosis.