

PE-Cy5 (Phycocerythrin-Cy5 Conjugate)

CATALOG NO: 7850-250 250 µg

SOURCE: R-PE is a phycobiliprotein purified from red algae and custom conjugated with Cy5 by a proprietary method.

FORM: Liquid

FORMULATION: Provided as a 1 mg/ml solution in PBS, pH 7.4.

MOL. WEIGHT: ~250 kDa.

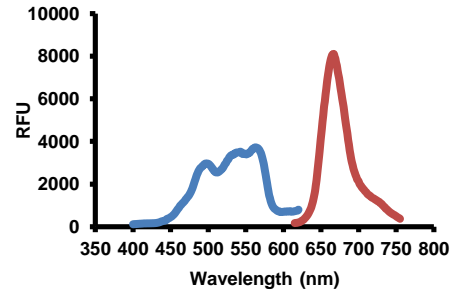
STORAGE CONDITIONS: Store at 4°C.

Usage Instructions: BioVision's PE-Cy5 comes as a ready-to-use formulation. It can be directly conjugated to a protein or antibody.

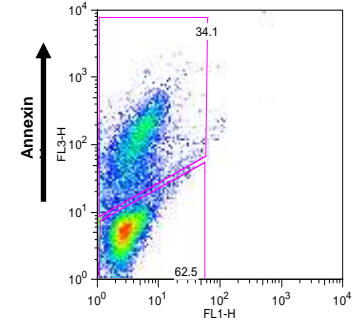
DESCRIPTION: BioVision's PE-Cy5 is a tandem FRET conjugate dye, combining R-PE (240 kDa) and a cyanine dye (Cy5). The PE can be excited at 488 nm and functions as an efficient energy donor for the Cy5 which acts as an energy acceptor. Fluorescence emission maximum of the conjugate is around 670 nm. PE-Cy5 can be used with any flow cytometers equipped with a 488 nm laser and can be detected in FL3 channel.

APPLICATIONS: BioVision's PE-Cy5 can be used for cross linking PE-Cy5 with target proteins or antibodies for subsequent western blotting, ELISA, immunohistochemistry, immunofluorescence and FACS analysis.

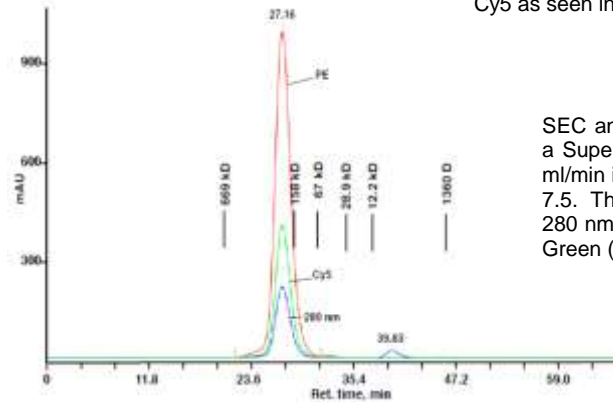
FOR RESEARCH USE ONLY! Not to be used in humans.



Excitation (blue line) and emission (red line) spectra of conjugated PE-Cy5



PE-Cy5 was conjugated to Annexin V, human recombinant (**Catalog # 1005**) using BioVision's proprietary method. The conjugate was subsequently tested for staining of apoptotic cells by Flow cytometry. In short, Jurkat cells were induced with 2 µM camptothecin overnight to induce apoptosis followed by successful staining of apoptotic cells with Annexin V-PE-Cy5 as seen in channel FL3.



SEC analysis of PE-Cy5 conjugate using a Superdex 200 HR 10/30 column at 0.5 ml/min in 50 mM Tris and 0.25 M NaCl pH 7.5. The absorbance was monitored at 280 nm (Blue), 565 nm (Red, for PE) and Green (660 nm, for Cy5).

RELATED PRODUCTS:

- Annexin V-PE-Cy5 Apoptosis Detection Kit (**Cat # K129-25, -100, -400**)
- Annexin V-PE-Cy5 Reagent (**Cat # 1015-200, -1000**)
- Annexin V-Cy5 Apoptosis Kit (**Cat # K103-25, -100, -400**)
- Annexin V-Biotin Apoptosis Kit (**Cat # K109-25, -100, -400**)
- Annexin V-FITC Apoptosis Kit (**Cat # K101-25, -100, -400**)
- Annexin V-PE Apoptosis Detection Kit (**Cat # K128-25, -100, -400**)
- EZ-label Antibody-FITC Labeling Kit (**Cat # XXXX-5**)