



PRODUCT INFORMATION

Protein A FITC Conjugate – 1.0 mg

PRODUCT CODE: X-CON-0006-1.0MG

STORAGE: 2 - 8 °C, protected from sun light

PRODUCT DESCRIPTION

Protein A is a 42 kDa surface protein originally found in the cell wall of the bacteria *Staphylococcus aureus*. Protein A binds strongly to the Fc region of IgG from human (total IgG, IgG1, IgG2, IgG4), mouse (IgG2a, IgG2b and IgG3), rabbit, guinea pig, pig, dog, and rhesus monkey.

Fluorescein isothiocyanate (FITC) is the derivative of fluorescein with an isothiocyanate reactive group, rendering it reactive towards amine and sulfhydryl groups commonly found in biomolecules. In water, its maximum absorption/emission is 494/518 nm, corresponding to the colour blue and green. The blue colour spectrum is 450-495 nm, and the green spectrum is 495-570 nm. Protein A is conjugated with FITC under optimal conditions. The solution is free from unbound FITC. Protein A FITC Conjugate is useful as a secondary reagent for detecting biotinylated molecules in immunohistochemistry procedures.

PRECAUTIONS AND DISCLAIMER

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

FORMULATION

For shipping at ambient temperature Protein A FITC conjugate is dried with a HEPES, NaCl, sucrose buffer base.

PREPARATION AND HANDLING

The product should be reconstituted with 100 µl water yielding a concentration of 10 mg/ml. The reconstituted stock solution can be frozen in aliquots for later usage. Stock solutions can be diluted in buffers containing > 0.1 % BSA (IgG free) as needed.

STORAGE / STABILITY

For long term storage the dry-stabilized Protein A FITC Conjugate should be stored between 2 °C and 8 °C. Reconstituted stock solutions can be stored at 2 - 8 °C for up to 2 weeks. For long term storage, stock solutions can be frozen in working aliquots. Repeated freeze-thaw cycles should be avoided.

RECONSTITUTION AND CONCENTRATION

10 mg/ml after reconstitution with 100 µl H₂O (concentration relates to the Protein A only component of the conjugate).

RECOMMENDED DILUTION

For immunofluorescent staining a final concentration of 5 to 10 µg/ml is recommended. For optimal performance the reagent should be titrated for each application.

RECOMMENDED RETEST DATE

07/2021

BACKGROUND REFERENCES

1. Goding, J.W., Use of staphylococcal protein A as an immunological reagent, *J. Immunol. Methods*, 20, 241-53 (1978).