



Rabbit anti-PGI Synthase IgG conjugated to SureLight™ R-Phycoerythrin

Product Number D5-1867
 Lot Number RPE106-10-001
 Amount 100 µg total protein
 Store at 4°C

Form/ Storage

Supplied as a lyophilized powder. Upon receipt, store at 2-8°C in the dark. Phycobiliproteins are sensitive to freeze-thaw cycles: after reconstitution, store at 2-8°C in the dark - do not freeze.

Handling

Avoid exposure to heat and light. Prior to use reconstitute to 1 ml with distilled deionized water, vortex and allow it to sit on ice for 20 minutes.

Buffer

Upon reconstitution, the product is in 100 mM sodium phosphate (pH 7.4), 50 mM sucrose, 150 mM sodium chloride, 0.1% BSA as a stabilizer, and 2 mM sodium azide as a preservative.

Stability

Lyophilized material is stable for one year. After product has been reconstituted, product should be stored at 2-8°C in the dark and be used within 3 months.

Antigen Info

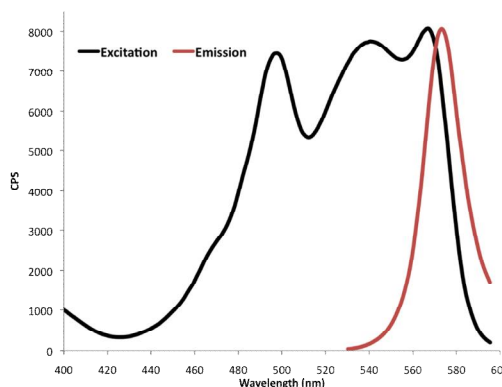
PGIS sequence amino acids 475-490
 (PEFDLSRYGFGLMQPE)

Reactivity

Human, bovine, ovine, rat, and murine PGIS; other species not tested

Note

For research use only, not for diagnostic or therapeutic use.



Fluorescence excitation and emission spectra of R-phycoerythrin in 100 mM sodium phosphate (pH 7.2) + 1 mM EDTA and 1 mM sodium azide. Emission scan was taken with excitation at 498 nm. Excitation scan was taken with emission at 575 nm.

Spectral Characteristics

Visible absorption maxima 565>540>498
 Emission maximum 578 nm

Concentration (after reconstitution to 1.0 ml)

0.1 mg/mL
 [RPE] = 0.28µM [α-PGIS] = 0.23µM
 Fluor:Protein = 1.2

References:

- DeWitt, D.L. and Smith, W.L. Purification of prostacyclin synthase from bovine aorta by immunoaffinity chromatography. Evidence that the enzyme is a hemoprotein. J. Biol. Chem. 258, 3285-3293 (1983).
- Miyata, A., Hara, S., Yokoyama, C., et al. Molecular cloning and expression of human prostacyclin synthase. Biochem. Biophys. Res. Commun. 200, 1728-1734 (1994).
- Pereira, B., Wu, K.K., and Wang, L.-H. Molecular cloning and characterization of bovine prostacyclin synthase. Biochem. Biophys. Res. Commun. 203, 59-66 (1994).
- Hara, S., Miyata, A., Yokoyama, C., et al. Isolation and molecular cloning of prostacyclin synthase from bovine endothelial cells. J. Biol. Chem. 269, 19897-19903 (1994).

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