

Recombinant Human LYN Protein Tyrosine Kinase GST Active

Catalog No.	CRL101A	Quantity:	5 µg
	CRL101B		10 µg

Description: Recombinant full length human Lyn B containing N-terminal GST tag was expressed by baculovirus in Sf9 insect cells.

Lyn is a 56 kd tyrosine kinase that is similar to mouse T-lymphocyte-specific tyrosine kinase p56lck and the v-yes protein as well as to the gene products of v-fgr and v-src. Northern hybridization analysis showed that a 3.2-kilobase Lyn mRNA was expressed in a variety of tissues of the human fetus. Lyn is expressed preferentially in B cells and can be coimmunoprecipitated with IgM suggesting that Lyn is physically associated with membrane-bound IgM, and participates in antigen-mediated signal transduction. Crosslinking of membrane-bound IgM with antibody induces rapid increase in activities of Lyn and Lyn-associated phosphatidylinositol 3-kinase. Crosslinking of B-cell antigen receptor also induces association of Lyn with an 85-kDa noncatalytic subunit of phosphatidylinositol 3-kinase. Thus, Lyn is functionally associated with membrane-bound IgM and participates in B-cell antigen receptor-mediated signaling.

Concentration: 0.1 mg/ml

Protein Accession No: BC059394

Source: Sf9 insect cells

Formulation: Recombinant protein in storage buffer (50 mM Tris-HCl + 150 mM NaCl + 0.25 mM DTT + 0.1 mM EGTA + 0.1 mM EDTA + 0.1 mM PMSF + 25% glycerol; pH 7.5).

Purity: 1 µg of Lyn protein was subjected to SDS-PAGE and Coomassie blue staining. The scan of the gel showed >90% purity of the LynB product, and the band was at ~85 kDa (Fig. 2).

Specific Activity: 180 nmol/min/mg: 180 nmol phosphate incorporated into Poly(Glu-Tyr) per minute per mg protein at 30°C for 15 minutes using a final concentration of 50 µM ATP (0.83 µCi/assay). See QA/QC section for details.

Storage & Stability: Store product frozen at or below -80°F. Stable for 1 year at -80°F as undiluted stock. Aliquot to avoid repeated thawing and freezing.

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