

Recombinant Human V-Yes-1 Yamaguchi Sarcoma Viral Related Oncogene Homolog, GST-tagged

Cat. No. LYN-1127H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human LYN was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
Description	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.
Biological Activity	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 μ M ATP (0.83 μ i/assay).

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Molecular Weight	85.0 kDa
Form	Recombinant protein in storage buffer (50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 0.25 mM DTT, 0.1 mM EGTA, 0.1 mM EDTA, 0.1 mM PMSF, 25% glycerol).
Appearance	Liquid
Purity	>98% by SDS-PAGE and HPLC analyses
Storage	Store product frozen at or below -70°C. Stable for 1 year at -70°C as undiluted stock. Aliquot to avoid repeated thawing and freezing.
Pathways	B cell receptor signaling pathway; Chemokine signaling pathway; Epithelial cell signaling in Helicobacter pylori infection; Fc epsilon RI signaling pathway; Fc gamma R-mediated phagocytosis; Hemostasis; Signaling in Immune system; Fc epsilon RI signaling pathway; IL-2 Signaling Pathway

GENE INFORMATION

Gene Name	LYN v-src-1 Yamaguchi sarcoma viral related oncogene homolog [Homo sapiens]
Official Symbol	LYN
Synonyms	LYN; v-src-1 Yamaguchi sarcoma viral related oncogene homolog; JTK8; FLJ26625; Yamaguchi sarcoma viral (v-src-1) related oncogene homolog; EC 2.7.10.2; OTTHUMP00000226393; OTTHUMP00000226394
Gene ID	4067
mRNA Refseq	NM_001111097

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Protein Refseq	NP_001104567
MIM	165120
UniProt ID	P07948
Chromosome Location	8q13
Function	ATP binding; glycosphingolipid binding; integrin binding; non-membrane spanning protein tyrosine kinase activity; phosphoprotein binding; platelet-derived growth factor receptor binding; receptor signaling protein tyrosine kinase activity; transferase activity; ubiquitin protein ligase binding
PDB rendering based on 1wa7.	