

LYN recombinant protein

Recombinant LYN protein

CATALOG #
AAA60238

HOST
Baculovirus

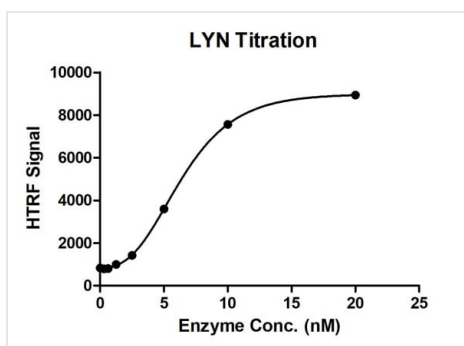
PRODUCT SYNONYMS

LYN; Recombinant LYN protein; LYN Proto-Oncogene; Src Family Tyrosine Kinase; JTK8; LYN recombinant protein

PRODUCT SPECIFICATIONS

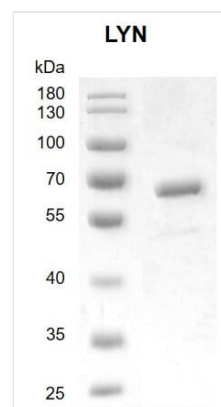
Host	Baculovirus
Form/Format	Recombinant LYN protein is supplied in 25mM HEPES-NaOH pH7.5, 300mM NaCl, 10% glycerol, 0.04% Triton X-100, and 0.5mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag
Protein Details	Recombinant LYN protein was expressed in baculovirus expression system as the full length protein (accession number NP_001104567.1) with a N-terminal DYKDDDDK tag.
Notes	This product was manufactured as described in Protein Details. Where possible, We has developed functional or activity assays for recombinant proteins. Additional characterization such as enzyme kinetic activity assays, inhibitor screening or other biological activity assays may not have been performed for every product. All available data for a given product is shown on the lot-specific Technical Data Sheet.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice

IMAGES



Application Data

HTRF assay for LYN activity 1 uM TK substrate was incubated with different concentrations of LYN protein in a 10 ul reaction system containing 1xEnzymatic Buffer, 5 mM MgCl₂, 1 mM DTT, 5 nM SEB and 100 uM ATP for 1 hour. Then 10 ul detection reagents containing TK antibody (1:2) and SA-XL665 (1:100) diluted with 1x Detection Buffer were added and incubated with the reactions for 30 min. All the operations and reactions were performed at room temperature. HTRF assay was used for detection.



SDS-PAGE

Recombinant LYN protein 10% SDS-PAGE gel with Coomassie blue staining MW: 57 kDa
Purity: >90%

ADDITIONAL INFORMATION

Related Product Information for LYN recombinant protein	Background: LYN (LYN Proto-Oncogene, Src Family Tyrosine Kinase) is a non-receptor tyrosine-protein kinase that transmits signals from cell surface receptors and plays an important role in the regulation of innate and adaptive immune responses, hematopoiesis, responses to growth factors and cytokines, integrin signaling, but also responses to DNA damage and genotoxic agents. Functions primarily as negative regulator, but can also function as activator, depending on the context. LYN plays an important role in the regulation of B-cell differentiation, proliferation, survival and apoptosis, and is important for immune self-tolerance. Regulates cell proliferation, survival, differentiation, migration, adhesion, degranulation, and cytokine release. It down-regulates signaling pathways by phosphorylation of immunoreceptor tyrosine-based inhibitory motifs (ITIM), that then serve as binding sites for phosphatases, such as PTPN6/SHP-1, PTPN11/SHP-2 and INPP5D/SHIP-1, that modulate signaling by dephosphorylation of kinases and their substrates. LYN regulates activation of the MAP kinase signaling cascade, including activation of MAP2K1/MEK1, MAPK1/ERK2, MAPK3/ ERK1, MAPK8/JNK1 and MAPK9/JNK2. Diseases associated with LYN include Sarcoma and Mastocytosis, Cutaneous.
Product Categories/Family for LYN recombinant protein	Recombinant Proteins; Kinase

NCBI AND UNIPROT INFORMATION

NCBI GI #	162287326
NCBI GeneID	4067
NCBI Accession #	NP_001104567.1
NCBI GenBank Nucleotide #	NM_001111097.2
UniProt Accession #	P07948; A0AVQ5
Molecular Weight	512
NCBI Official Full Name	tyrosine-protein kinase Lyn isoform B
NCBI Official Synonym Full Names	v-yes-1 Yamaguchi sarcoma viral related oncogene homolog
NCBI Official Symbol	LYN
NCBI Official Synonym Symbols	JTK8; p53Lyn; p56Lyn
NCBI Protein Information	tyrosine-protein kinase Lyn; lck/Yes-related novel protein tyrosine kinase
UniProt Protein Name	Tyrosine-protein kinase Lyn
UniProt Gene Name	LYN
UniProt Synonym Gene Names	JTK8
UniProt Entry Name	LYN_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.