

Recombinant Human LYN Protein (Met263-Asp491), His tagged

Cat. No. LYN-2705H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human LYN (Met263-Asp491) protein fused with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Met263-Asp491
Description	Tyrosine-protein kinase Lyn is a member of the Src family of protein tyrosine kinases, which is mainly expressed in hematopoietic cells, in neural tissues liver, and adipose tissue. Tyrosine-protein kinase Lyn has many functions. Lyn kinase may down regulate expression of stem cell growth factor receptor (KIT). Lyn kinase Acts as an effector of EpoR (erythropoietin receptor) in controlling KIT expression and may play a central role in erythroid differentiation during the switch between proliferation and maturation. Lyn kinase also acts as a positive regulator of cell movement while negatively regulating adhesion to stromal cells by inhibiting the ICAM-1-binding activity of beta-2 integrins. Lyn kinase relays suppressing signals from the chemokine receptor CXCR4 to beta-2 integrin LFA-1 in hematopoietic precursors. This kinase is Involved in induction of stress-activated protein kinase (SAPK), but not ERK or p38 MAPK, in response to genotoxic agents. In a word, Lyn kinase functions primarily as negative regulator, but can also function as activator, depending on the context. Tyrosine-protein kinase Lyn Required for the initiation of the B-cell response, but also for its down-regulation and termination. It also Plays an important role in the

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regulation of B-cell differentiation, proliferation, survival and apoptosis, and is important for immune self-tolerance. It has been reported that Lyn kinase plays a role in the inflammatory response to bacterial lipopolysaccharide. Lyn kinase Mediates the responses to cytokines and growth factors in hematopoietic progenitors, platelets, erythrocytes, and in mature myeloid cells, such as dendritic cells, neutrophils and eosinophils.

Molecular Mass	26.39 kDa
Purity	>90 % as determined by SDS-PAGE.
Notes	For research use only.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	Supplied as solution form in PBS pH 7.5 or lyophilized from PBS pH 7.5.
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	In general, proteins are provided as lyophilized powder/frozen liquid. They are shipped out with dry ice/blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	LYN v-yes-1 Yamaguchi sarcoma viral related oncogene homolog [Homo sapiens (human)]
Official Symbol	LYN

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Synonyms	LYN; v-yes-1 Yamaguchi sarcoma viral related oncogene homolog; tyrosine-protein kinase Lyn; JTK8; lck/Yes-related novel protein tyrosine kinase; p53Lyn; p56Lyn; FLJ26625;
Gene ID	4067
mRNA Refseq	NM_001111097
Protein Refseq	NP_001104567
MIM	165120
UniProt ID	P07948

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