

Recombinant Human Spleen Tyrosine Kinase, GST-His

Cat. No. SYK-715H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SYK, Amino acids M1-N635, N-terminally fused to GST-HIS6-Thrombin cleavage site, was expressed in Sf9 cells. MW = 104,408 Da.
Species	Human
Source	Sf9 Cells
ProteinLength	1-635 a.a.
Description	SYK is a non-receptor protein tyrosine kinase that is widely expressed in hematopoietic cells. It is involved in coupling activated immunoreceptors to downstream signaling events that mediate diverse cellular responses, including proliferation, differentiation, and phagocytosis. In B cells, SYK plays a crucial role in intracellular signal transduction induced by oxidative stress as well as antigen receptor engagement. SYK has been shown to act as a potential tumor suppressor in breast cancer.
Purification	One-step affinity purification using GSH-agarose.
Product Identity	SYK was confirmed as SYK by mass spectroscopy LC-ESI-MS/MS (Protagen AG, Germany).
Storage Buffer	50 mM Tris-HCl, pH 8.0; 100 mM NaCl, 5 mM DTT, 15 mM reduced glutathione, 20% glycerol.

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Concentration	0.094 µg/µl (Bradford method using BSA [Sigma, cat# A-7638, Lot 79H7641] as standard protein).
Specific Activity	20 pmol/µg×min.
Storage	-80°C. Avoid repeated freeze-thaw cycles!
GENE INFORMATION	
Gene Name	SYK spleen tyrosine kinase [Homo sapiens]
Synonyms	SYK; spleen tyrosine kinase; FLJ25043; FLJ37489; DKFZp313N1010; OTTHUMP00000021628; OTTHUMP00000021629; EC 2.7.10.2; Tyrosine-protein kinase SYK
Gene ID	6850
mRNA Refseq	NM_001135052
Protein Refseq	NP_001128524
MIM	600085
UniProt ID	P43405
Chromosome Location	9q22
Pathway	B cell receptor signaling pathway; Fc epsilon RI signaling pathway; Fc gamma R-mediated phagocytosis; Natural killer cell mediated cytotoxicity

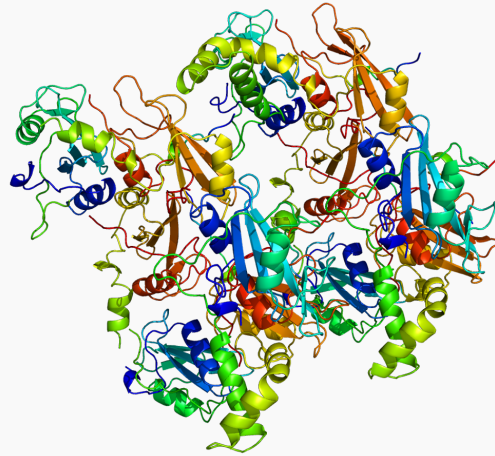
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Function

ATP binding; integrin binding; non-membrane spanning protein tyrosine kinase activity; nucleotide binding; protein domain specific binding; receptor signaling protein tyrosine kinase activity; transferase activity

PDB rendering based on 1a81.

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