

Recombinant Human ZAP70 protein, His & T7-tagged

Cat. No. ZAP70-1490H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ZAP70 aa. (Leu337~Leu600 (Accession # P43403)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Leu337~Leu600
Description	This gene encodes an enzyme belonging to the protein tyrosine kinase family, and it plays a role in T-cell development and lymphocyte activation. This enzyme, which is phosphorylated on tyrosine residues upon T-cell antigen receptor (TCR) stimulation, functions in the initial step of TCR-mediated signal transduction in combination with the Src family kinases, Lck and Fyn. This enzyme is also essential for thymocyte development. Mutations in this gene cause selective T-cell defect, a severe combined immunodeficiency disease characterized by a selective absence of CD8-positive T-cells. Two transcript variants that encode different isoforms have been found for this gene.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 34.2kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)

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Purity	>95%
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% sucrose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.
Isoelectric Point	8.6

GENE INFORMATION

Gene Name	ZAP70 zeta chain of T-cell receptor associated protein kinase 70 [Homo sapiens (human)]
Official Symbol	ZAP70
Synonyms	ZAP70; zeta chain of T-cell receptor associated protein kinase 70; SRK; STD; TZK; STCD; IMD48; ADMIO2; ZAP-70; tyrosine-protein kinase ZAP-70; 70 kDa zeta-associated protein; 70 kDa zeta-chain associated protein; syk-related tyrosine kinase; zeta chain of T cell receptor associated protein kinase 70kDa; zeta-chain (TCR) associated protein kinase 70kDa; zeta-chain associated protein kinase, 70kD

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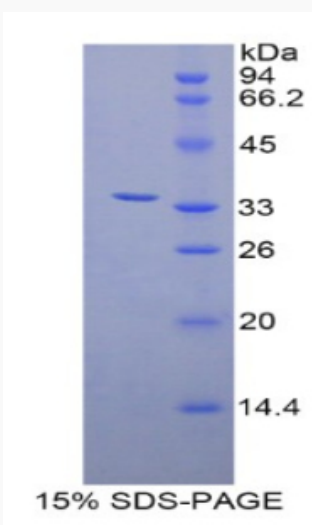
Gene ID 7535

mRNA Refseq NM_001079.3

Protein Refseq NP_001070.2

UniProt ID P43403

SDS-PAGE



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