Recombinant Full Length Human ZAP70 Protein, His tagged

Cat. No. ZAP70-98H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human full-length protein produced from recombinant baculovirus in insect cells, Histidine-tagged. No special measures were taken to activate this kinase.
Species	Human
Source	Insect Cells
ProteinLength	1-619 aa
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	25 mM HEPES (pH 7.5), 150 mM NaCl, 0.5 mM DTT, 50% Glycerol.
Bio-activity	410 nmoles of phosphate transferred to poly [Glu, Tyr] 4:1 per minute per mg of total protein at 37 centigrade. Activity determined at a final protein concentration of 1 µg/mL.

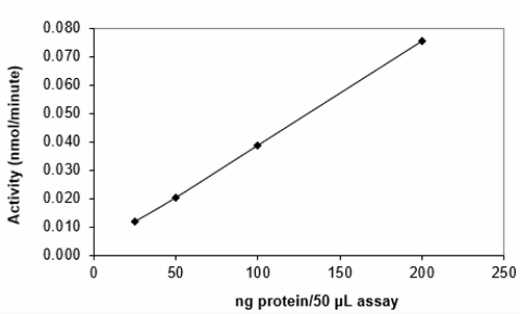
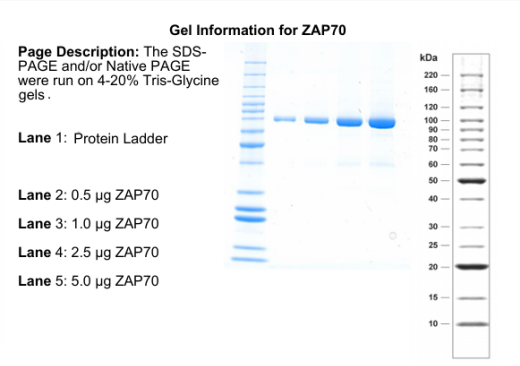
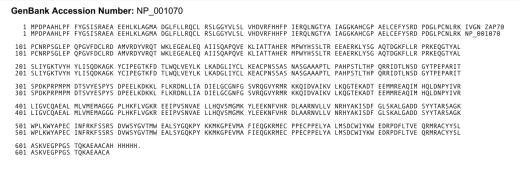
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Molecular Mass	70.1 kDa
Purity	90% as determined by a SDS-PAGE gel stained with SimplyBlue SafeStain.
Storage	Store at -20 centigrade. At first use, aliquot and store at -20 centigrade to avoid multiple freeze-thaws. If properly stored at -20 centigrade, this product is guaranteed for 6 months from date of purchase.
Concentration	0.47 mg/mL total protein as measured using the Bradford protein assay with BSA as a standard.

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; EC 2.7.10.2
Gene ID	7535
mRNA Refseq	NM_001079
Protein Refseq	NP_001070

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MIM	176947
UniProt ID	P43403
Activity	
SDS-PAGE	
Protein sequence	

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