

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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

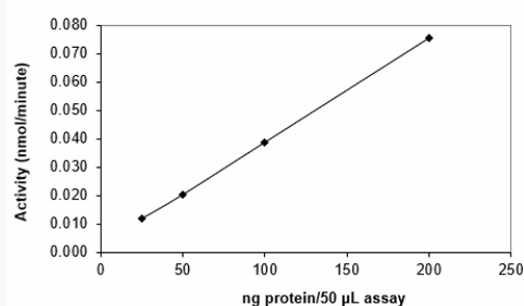
Molecular Mass	70.1 kDa
Purity	90% as determined by a SDS-PAGE gel stained with SimplyBlue SafeStain.
Storage	Store at -20 centigrade. At first use, aliquot and store at -20 centigrade to avoid multiple freeze-thaws. If properly stored at -20 centigrade, this product is guaranteed for 6 months from date 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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

UniProt ID P43403



Gel Information for ZAP70

Page Description: The SDS-PAGE and/or Native PAGE were run on 4-20% Tris-Glycine gels.

Lane 1: Protein Ladder

Lane 2: 0.5 μ g ZAP70

Lane 3: 1.0 μ g ZAP70

Lane 4: 2.5 μ g ZAP70

Lane 5: 5.0 μ g ZAP70

The image displays an SDS-PAGE gel with five lanes. Lane 1 contains a protein ladder with molecular weight markers labeled on the right: 120, 100, 90, 80, 70, 60, 50, 40, 30, 25, 20, 15, and 10 kDa. Lanes 2 through 5 show the results of ZAP70 protein loading at concentrations of 0.5, 1.0, 2.5, and 5.0 μg, respectively. A single prominent band is visible in each of these lanes at approximately 72 kDa, corresponding to the ZAP70 protein. The intensity of this band increases with the amount of protein loaded. The gel is stained with Coomassie Brilliant Blue G250.

[illegible]