



# Recombinant Human Tyrosine-protein kinase ZAP-70 (ZAP70)

<b>Product Code</b>	CSB-MP026303HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P43403
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MPDPAAHLPF FYGSISRAEA EEHLKLAGMA DGLFLLRQCL RSLGGYVLSL VHDVRFHHFP IERQLNGTYA IAGGKAHCGP AELCEFYSRD PDGLPCNLRK PCNRPSGLEP QPGVFDCLRD AMVRDYVRQT WKLEGEALEQ AIISQAPQVE KLIATTAHER MPWYHSSLTR EEAERKLYSG AQTDGKFLLR PRKEQGTYAL SLIYGKTVYH YLISQDKAGK YCIPEGTKFD TLWQLVEYLK LKADGLIYCL KEACPNSSAS NASGAAPTL PAHPSTLTHP QRRIDTLNSD GYTPEPARIT SPDKPRPMPM DTSVYESPYS DPEELKDKKL FLKRDNLLIA DIELGCGNFG SVRQGVYRMR KKQIDVAIKV LKQGTEKADT EEMMREAQIM HQLDNPYIVR LIGVCQAEAL MLVMEMAGGG PLHKFLVGKR EEIPVSNVAE LLHQVSMGMK YLEEKNFVHR DLAARNVLLV NRHYAKISDF GLSKALGADD SYYTARSAGK WPLKWYAPEC INFRKFSSRS DVWSYGVTMW EALSYGQKPY KKMKGPEVMA FIEQGKRMEC PPECPELYA LMSDCWIYKW EDRPDLTVE QRMRACYYSL ASKVEGPPGS TQKAEAACA
<b>Source</b>	Mammalian cell
<b>Target Names</b>	ZAP70
<b>Protein Names</b>	Recommended name: Tyrosine-protein kinase ZAP-70 EC= 2.7.10.2 Alternative name(s): 70 kDa zeta-chain associated protein Syk-related tyrosine kinase
<b>Expression Region</b>	1-619
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length protein
<b>Target Details</b>	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.



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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.