

Recombinant Full Length Human ZAP70 Protein, C-Flag-tagged

Cat. No. ZAP70-885HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ZAP70 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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 Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	69.7 kDa
AA Sequence	MPDPA AHL PFFYGSISR AEAEEHLKLAGMADGLFLLRQCLRSLGGYVLSLVHDVRFH HFPIERQLNGTYA IAGGKAHC GPAELCEFYSRDPDGLPCNLRKPCNRPSGLEPQPG VFDCLRDAMVRDYVRQTWKLEGEALEQ AIISQAPQVEKLIATTAHERMPWYHSSLT

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REEAERKLYSGAQTDGKFLLRPRKEQGTYALSLIYGKTVYH YLISQDKAGKYCIPEG
 TKFDTLWQLVEYLKADGLIYCLKEACPNSSASNASGAAAPTLPAPSTLTHP QRR
 IDTLNSDGYTPEPARITSPDKPRPMPMDTSVYESPYSDPEELKDKKLFLKRDNLLIADI
 ELGCGNFG SVRQGVYRMRKKQIDVAIKVLKQGTEKADTEEMMREAQIMHQLDNPYI
 VRLIGVCQAEALMLVMEMAGGG PLHKFLVGKREEIPVSNVAELLHQVSMGMKYLEE
 KNFVHRDLAARNVLLVNRHYAKISDFGLSKALGADD SYYTARSAGKWPLKWYAPE
 CINFRKFSSRSVWSYGVTMWEALSYGQKPYKKMKGPEVMAFIEQGKRMEC
 PPECPPELYALMSDCWIYKWEDRPFDTVEQRMACYSSLASKVEGPPGSTQKAE
 AACASGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Protein Kinase
Protein Pathways	Natural killer cell mediated cytotoxicity, Primary immunodeficiency, T cell receptor signaling pathway
Full Length	Full L.

GENE INFORMATION

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Gene Name	ZAP70 zeta chain of T cell receptor associated protein kinase 70 [Homo sapiens (human)]
Official Symbol	ZAP70
Synonyms	SRK; STD; TZK; STCD; IMD48; ADMIO2; ZAP-70
Gene ID	7535
mRNA Refseq	NM_001079.4
Protein Refseq	NP_001070.2
MIM	176947
UniProt ID	P43403



Coomassie blue staining of purified ZAP70 protein.

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