

Recombinant Human STAT5A Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. STAT5A-4962H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	STAT5A MS Standard C13 and N15-labeled recombinant protein (NP_003143) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene is a member of the STAT family of transcription factors. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein is activated by, and mediates the responses of many cell ligands, such as IL2, IL3, IL7 GM-CSF, erythropoietin, thrombopoietin, and different growth hormones. Activation of this protein in myeloma and lymphoma associated with a TEL/JAK2 gene fusion is independent of cell stimulus and has been shown to be essential for tumorigenesis. The mouse counterpart of this gene is found to induce the expression of BCL2L1/BCL-X(L), which suggests the antiapoptotic function of this gene in cells. Alternatively spliced transcript variants have been found for this gene.
Molecular Mass	90.5 kDa
AA Sequence	MAGWIQAQQLQG DALRQMQVLYGQHFP I EVRHYLAQWIESQPWDAIDL DNPQDRA QATQLLEGLVQELQKKA EHQVGEDGFLLKIKLGHYATQLQKTYDRCPLELVRCIRHIL

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YNEQRLVREANNCS SPAGILVDAMSQKHLQINQTFEELRLVTQDTENELKKLQQTQE
 YFIIQYQESLR IQAQAQLAQLSPQERLSRETALQKQVSLEAWLQREAQTLQQYRV
 ELAEKHQKTLQLLRKQQTII LDDELIQWKRRQQLAGNGGPPEGSLDVLQSWCEKLAE
 IIWQNRQQIRRAEHL CQQLP IGPVVEMLAEVNATITDIISALVTSTFIEKQPPQVLKT
 QTKFAATVRL LVGGKLVH MNPPQVKATIISEQQA KSLLKNENTRNECSGEILNNCC
 VMEYHQATGTL SAHFRNMSLKRIKRADRRGAESVTEEKFTVLFESQFSVGSNELVF
 QVKTL SLPVVVIVHGSQDHNATATVLWDNAFAEPGRVPFAVPDKVLWPQLCEALNM
 KFKAEVQSNRGLTKENLVFLAQKLFNNSSSHLEDYSGLSVSWSQFNRENLPGWNY
 TFWQWFDGVM EVLKKHHKPHWNDGAILGFVNKQQAHDLLINKPDGTFLRFSDSEI
 GGITIAWKFDSPERNLWNLKPFTTRDFSIRSLADRLGDLSYLIYVFPDRPKDEVFSKY
 YTPVLAKAVDGYVKPQIKQVVPEFVNASADAGGSSATYMDQAPSPAVCPQAPYNM
 YPQNP DHVLDQDGEFDLDETMDVARHVEELLRRPMDSLDSRLSPPAGLFTSARGSL
 STRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name STAT5A signal transducer and activator of transcription 5A [Homo sapiens (human)]

Official Symbol STAT5A

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Synonyms	STAT5A; signal transducer and activator of transcription 5A; STAT5; MGF;
Gene ID	6776
mRNA Refseq	NM_003152
Protein Refseq	NP_003143
MIM	601511
UniProt ID	P42229
SDS-PAGE	