

Recombinant Full Length Human STAT5B Protein, C-Flag-tagged

Cat. No. STAT5B-325HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human STAT5B Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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 mediates the signal transduction triggered by various cell ligands, such as IL2, IL4, CSF1, and different growth hormones. It has been shown to be involved in diverse biological processes, such as TCR signaling, apoptosis, adult mammary gland development, and sexual dimorphism of liver gene expression. This gene was found to fuse to retinoic acid receptor-alpha (RARA) gene in a small subset of acute promyelocytic leukemias (APLL). The dysregulation of the signaling pathways mediated by this protein may be the cause of the APLL.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	89.7 kDa
AA Sequence	MAVWIQAQQLQGEALHQMQLYLGQHFPIEVRHYLSQWIESQAWDSVDLDNPQENI

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KATQLLEGLVQELQK KAEHQVGEDGFLLKIKLGHYATQLQNTYDRCPMELVRCIRHI
 LYNEQRLVREANNSSPAGSLADAMSQK HLQINQTFEELRLVTQDTENELKKLQQT
 QEYFIIQYQESLRIQAQFGPLAQLSPQERLSRETALQQKQVS LEAWLQREAQTLQQ
 YRVELAEKHQKTLQLLRKQQTIILDDLIQWKRRQQLAGNGGPPEGSLDVLQSWCE
 KLAEIWQNRQQIRRAEHLCCQLPIPGPVEEMLAEVNATITDIISALVTSTFIEKQPPQ
 VLKTQTKFAA TVRLLVGGKLVNVMNPPQVKATIISEQQAKSLLKNENTRNDYSGEIL
 NNCCVMEYHQATGTLSAHFRNMS LKRIKRSDDRRGAESVTEEKFTILFESQFSVGGN
 ELVFQVKTLSPVVIVHGSQDNNATATVLWDNAFAE PGRVPFAVPDKVLWPQLCE
 ALNMKFKAQVQSNRGLTKENLVFLAQKLFNNSSSHLEDYSGLSVSWSQFNR ENLP
 GRNYTFWQWFDGVMVLKKHLKPHWNDGAILGFVNKQQAHDLLINKPDGTFLRFS
 DSEIGGITIA WKFDSQERMFWNLMPFTTRDFSIRSLADRLGDLNLIYVFPDRPKDE
 VYSKYYPVPCESATAKAVDGYV KPQIKQVPEFVNASADAGGGSATYMDQAPSP
 AVCPQAHYNMYPQNPDSVLDTDGDFDLEDTMDVARRVE
 ELLGRPMDSQWIPHAQSTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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, ES Cell Differentiation/IPS, Stem cell relevant signaling - JAK/STAT signaling pathway, Transcription Factors

Protein Pathways

Acute myeloid leukemia, Chemokine signaling pathway, Chronic myeloid leukemia, ErbB signaling pathway, Jak-STAT signaling pathway, Pathways in cancer

Full Length

Full L.

GENE INFORMATION
Gene Name

STAT5B signal transducer and activator of transcription 5B [Homo sapiens (human)]

Official Symbol

STAT5B

Synonyms

STAT5; GHISID2

Gene ID

6777

mRNA Refseq

NM_012448.4

Protein Refseq

NP_036580.2

MIM

604260

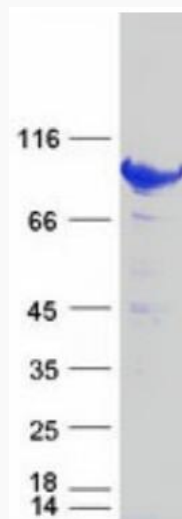
UniProt ID

P51692

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Coomassie blue staining of purified STAT5B protein.

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