

Recombinant Human STAT5B, His-tagged

Cat. No. STAT5B-197H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Signal Transducer and Activator of Transcription 5B/STAT5B is produced with our E. coli expression system. The target protein is expressed with sequence (Met1-Thr321) of Human STAT5B fused with a 6His tag at the C-terminus.
Species	Human
Source	E.coli
ProteinLength	1-321 a.a.
Description	Signal Transducer and Activator of Transcription 5b (STAT5B) is a member of the STAT family of transcription factors. They are responsible for an array of cellular activities including regulating growth, survival, differentiation, motility, and the immune response. STAT5B 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. Signal transduction and activator of transcription 5 (STAT5) is a member of the Jak/STAT signal transduction pathway and is activated by a variety of cytokines (IL22, IL6). STAT5 has two isoforms (A and B) that share 93% amino acid identity and bind the DNA consensus site TTCN3GAA. STAT5 mediates cytokine signaling by acting as a signal transducer in the cytoplasm and, upon phosphorylation, translocates to the nucleus and activates transcription of specific genes. STAT5 is involved in a wide array of biological processes ranging from regulating apoptosis to

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	adult mammary gland proliferation, differentiation and survival.
Form	Supplied as a 0.2 µM filtered solution of PBS, 50% Glycerol, 1mM DTT, pH 7.4
AA Sequence	MAVWIQAQQLQGEALHQMQUALYQGHPFIEVRHYLSQWIESQAWDSVDLDNPQENI KATQLLEGLV QELQKKAHQVGEDGFLKIKLGHYATQLQNTYDRCPMELVRCIRHI LYNEQRLVREANNSSPA GSLADAMSQKHLQINQTFEELRLVTQDTENELKKLQQT QEYFIIQYQESLRIQAQFGPLAQLSPQ ERLSRETALQQKQVSLEAWLQREAQTLQQ YRVELAEKHQKTLQLLRKQQTIIIDDELIQWKRRQQ LAGNGGPPEGSLDVLQSWCE KLAELIWNQRQQIRRAEHLCCQLPIPGPVEEMLAEVNATITLEHH HHHH
Endotoxin	Less than 0.1 ng/µg (1 IEU/µg).
Purity	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
Storage	Store at Please minimize freeze-thaw cycles.

GENE INFORMATION

Gene Name	STAT5B signal transducer and activator of transcription 5B [Homo sapiens]
Official Symbol	STAT5B
Synonyms	STAT5B; signal transducer and activator of transcription 5B; transcription factor STAT5B; STAT5;
Gene ID	6777
mRNA Refseq	NM_012448
Protein Refseq	NP_036580

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MIM	604260
UniProt ID	P51692
Chromosome Location	17q11.2
Pathway	Acute myeloid leukemia, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem; Adipogenesis, organism-specific biosystem; Angiopoietin receptor Tie2-mediated signaling, organism-specific biosystem; CXCR4-mediated signaling events, organism-specific biosystem; Chemokine signaling pathway, organism-specific biosystem; Chemokine signaling pathway, conserved biosystem;
Function	RNA polymerase II core promoter sequence-specific DNA binding; calcium ion binding; double-stranded DNA binding; glucocorticoid receptor binding; protein binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; signal transducer activity;

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