

## STAT5B Protein, Human (His)

Cat. No.:	HY-P71336
Synonyms:	Signal Transducer and Activator of Transcription 5B; STAT5B
Species:	Human
Source:	E. coli
Accession:	P51692 (M1-T321)
Gene ID:	6777
Molecular Weight:	Approximately 38.0 kDa

### PROPERTIES

AA Sequence	<pre> MAVW IQAQQ L   QGEALHQMQA   LYGQHFP I EV   RHYLSQW I ES QAWDSVDLDN   PQENIKATQL   LEGLVQELQK   KAEHQVGEDG FL LK I K L GHY   ATQLQNTYDR   CPMELVRC I R   H I L Y N E Q R L V REANNGSSPA   GSLADAMSQK   HLQINQTFEE   LRLVTQDTEN ELKKLQQTQE   YF I I Q Y Q E S L   R I Q A Q F G P L A   Q L S P Q E R L S R ETALQQKQVS   LEAWLQREAQ   TLQQYRVELA   EKHQKTLQLL RKQQT I I LDD   ELIQWKR R R Q Q   LAGNGG P P E G   SLDV L Q S W C E KLA E I I W Q N R   Q Q I R R A E H L C   Q Q L P I P G P V E   E M L A E V N A T I T </pre>
Appearance	Solution
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris-HCl, 10% Trehalose, 1 mM DTT, 0.05% Tween 80, pH 8.5.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year from date of receipt. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

### DESCRIPTION

Background	<p>STAT5B, a multifunctional protein, orchestrates signal transduction and transcriptional activation, playing a pivotal role in cellular responses to various stimuli, including the cytokine KITLG/SCF and other growth factors. Functioning as a transcription factor, STAT5B binds to the GAS element and facilitates PRL-induced transcription, positively regulating hematopoietic/erythroid differentiation. Upon activation, it forms homodimers and heterodimers with related family</p>
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members, contributing to its diverse functional roles. Additionally, STAT5B engages in protein-protein interactions, including binding to NR3C1 and forming complexes with NCOA1, NMI, and SOCS7. Notably, its interaction with INSR, facilitated by the SH2 domain, highlights its involvement in insulin signaling. Moreover, the interaction with CPEB3 serves to inhibit STAT5B-mediated transcriptional activation, adding a layer of regulatory complexity to its diverse cellular functions.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite F, Monmouth Junction, NJ 08852, USA