

Active Recombinant Full Length Human STAT4 Protein, His tagged

Cat. No. STAT4-1166H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active full length recombinant human STAT4 protein with His tag was expressed in Insect Cells.
Species	Human
Source	Insect Cells
ProteinLength	1-748 aa
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 essential for mediating responses to IL12 in lymphocytes, and regulating the differentiation of T helper cells. Mutations in this gene may be associated with systemic lupus erythematosus and rheumatoid arthritis. Alternate splicing results in multiple transcript variants that encode the same protein.
Form	The protein is in 20mM Tris-HCl pH7.9, 100mM NaCl, 0.2mM EDTA, 1mM DTT and 20% glycerol.
Molecular Mass	87.8 kDa
AASequence	MSQWNQVQQLEIKFLEQVDQFYDDNFPMEIRHLLAQWIENQDWEAASNNETMATIL

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LQNLLIQLDEQLGRVSKEKNLLLIHNLKRIRKVLQGKFHGNPMHVAVVISNCLREERRI
 LAAANMPVQGGLEKSLQSSSVSERQRNVEHKVAAIKNSVQMTEQDTKYLEDLQDEF
 DYRYKTIQTMDQSDKNSAMVNQEVLTQEMLNSLDFKRKEALSKMTQIIHETDLLMN
 TMLIEELQDWKRRQQIACIGGPLHNGLDQLQNCFTLLAESLFQLRRQLEKLEEQSTK
 MTYEGDPIPMQRTHMLERVTFLLIYNLFKNSFVVERQPCMPHPQRPLVLKTLIQFTV
 KLRLLIKLPENYQVKVKASIDKNVSTLSNRRFVLCGTNVKAMSIEESSNGSLSVEFR
 HLQPKEMKSSAGGKGNEGCHMVTEELHSITFETQICLYGLTIDLETSSLPVVMISNVS
 QLPNAWASIIWYNVSTNDSQNLVFFNNPPPATLSQLLEVMSWQFSSYVGRGLNSDQ
 LHMLAEKLTVQSSYSDGHLTWAKFCKEHLPGKSFTFWTWLEAILDLIKKHILPLWIDG
 YVMGFVSKEKERLLLKDKMPGTFLRRFSESHLGGITFTWVDHSESGEVRFHVSPEPY
 NKGRLSALPFADILRDYKVIMAENIPENPLKYLYPDIPKDKAFGKHYSSQPCEVSRPT
 ERGDKGYVPSVFIPISTIRSDSTEPHSPDLLPMSPSVYAVLRENLSPTTIETAMKSPY
 SAE

Purity > 90% homogeneous based on SDS-PAGE analysis.

Applications STAT4 For Research Use Only

Storage Stored at -70 centigrade before use. Avoid repeated freeze thaw cycles.

Unit Definition 1 unit equals 1 nanogram of purified protein.

GENE INFORMATION

Gene Name [STAT4 signal transducer and activator of transcription 4 \[Homo sapiens \(human\) \]](#)

Official Symbol [STAT4](#)

Synonyms STAT4; signal transducer and activator of transcription 4; DPMC; SLEB11

Gene ID [6775](#)

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mRNA Refseq	NM_003151
Protein Refseq	NP_003142
MIM	600558
UniProt ID	Q14765

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