

Recombinant Human STAT4 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. STAT4-6697H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

STAT4 MS Standard C13 and N15-labeled recombinant protein (NP_003142) 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 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.

Molecular Mass

85.9 kDa

AA Sequence

MSQWNQVQQLEIKFLEQVDQFYDDNFPMEIRHLLAQWIENQDWEAASNNETMATIL
LQNLLIQLDEQLGRVSKEKNLLLIHNLKRIRKVLQGKFHGNPMHVAVVISNCLREERRI
LAAANMPVQGPLEKSLQSSSVSERQRNVEHKVAAIKNSVQMTEQDTKYLEDLQDEF
DYRYKTIQTMDQSDKNSAMVNQEVLTLEMLNSLDFKRKEALSMTQIIHETDLLMN
TMLIEELQDWKRRQQIACIGGPLHNGLDQLQNCFTLLAESLFQLRRQLEKLEEQSTK

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MTYEGDPIPMQRTHMLERVTFLLIYNLFKNSFVVERQPCMPHPQRPLVLKTLIQFTV
 KLRLLIKLPENYQVKVKASIDKNVSTLSNRRFVLCGTNVKAMSIEESSNGSLSVEFR
 HLQPKEMKSSAGGKGNEGCHMVTEELHSITFETQICLYGLTIDLETSSLPVVMISNV
 QLPNAWASIIWYNVSTNDSQNLVFFNPPPATLSQLLEVMSWQFSSYVGRGLNSDQ
 LHMLAEKLTVQSSYSDGHLTWAKFCKEHLPGKSFTFWTWLEAILDLIKKHILPLWIDG
 YVMGFVSKEKERLLLKDKMPGTFLRFSESHLGGITFTWVDHSESGEVRFHVSPEPY
 NKGRLSALPFADILRDYKVIMAENIPENPLKYLYPDIPKDKAFGKHYSSQPCEVSRPT
 ERGDKGYVPSVFIPISTIRSDSTEPHSPDLLPMSPSVYAVLRENLSPTTIETAMKSPY
 SAETRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

Official Symbol [STAT4](#)

Synonyms STAT4; signal transducer and activator of transcription 4;

Gene ID [6775](#)

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mRNA Refseq [NM_003151](#)

Protein Refseq [NP_003142](#)

MIM [600558](#)

UniProt ID [Q14765](#)

SDS-PAGE



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