

Recombinant Human STAT6 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. STAT6-2916H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	STAT6 MS Standard C13 and N15-labeled recombinant protein (NP_003144) 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 plays a central role in exerting IL4 mediated biological responses. It is found to induce the expression of BCL2L1/BCL-X(L), which is responsible for the anti-apoptotic activity of IL4. Knockout studies in mice suggested the roles of this gene in differentiation of T helper 2 (Th2) cells, expression of cell surface markers, and class switch of immunoglobulins. Alternative splicing results in multiple transcript variants.
Molecular Mass	94.1 kDa
AA Sequence	MSLWGLVSKMPPEKVQRLYVDFPQHRLRHLLGDWLESQPWEFLVGSDAFCCNLASA LLSDTVQHLQASVGEQGEGSTILQHISTLESIYQRDPLKLVATFRQILQGEKKAVMEQ FRHLPMPFHWKQEELKFKTGLRRLQHRVGEIHLREALQKGAEAGQVSLHSLIETPA

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



NGTGPSEALAMLLQETTGELEAAKALVLKRIQIWKRQQQLAGNGAPFEESLAPLQER
CESLVDIYSQLQQEVGAAGGELEPKTRASLTGRLDEVLRTLVTSCFLVEKQPPQVLK
TQTKFQAGVRFLGLRFLGAPAKPPLVRADMVTEKQARELSVPQGPAGAGAESTGEII
NNTVPLENSIPGNCCSALFKNLLKKIKRCERKGTESVTEEKCAVLFSASFTLGPGKL
PIQLQALSPLVIVHGNQDNNAKATILWDNAFSEMDRVPFVVAERVPWEKMCETLN
LKFMAEVGTNRGLLPEHFLFLAQKIFNDNSLSMEAFQHRSVSWSQFNKEILLGRGFT
FWQWFDGVLDLTKRCLRSYWSDRLIIGFISKQYVTSLLLNEPDGTFLLRFSDEIGGI
TIAHVIRGQDGSPQIENIQPFSAKDLSIRSLGDRIRDLAQLKNLYPKPKDEAFRSHYK
PEQMGKDGRGYVPATIKMTVERDQPLPTPELQMPTMVPSYDLGMAPDSSMSMQL
GPDMPVQVYPPHSHSIPPYQGLSPEESVNVLSAFQEPHLQMPPSLGQMSLPFDQP
HPQGLLPCQPQEHAVSSPDPLLCSDVTMVEDSCLSQPVTAFPQGTWIGEDIFPPLLP
PTEQDLTKLLLEGQGEGSGGSLGAQPLLQPSHYGQSGISMSHMDLRANPSWTRTR
PLEQKLISEEDLAANDILDYKDDDDKV

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 STAT6 signal transducer and activator of transcription 6 [Homo sapiens (human)]

Official Symbol STAT6

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Synonyms	STAT6; signal transducer and activator of transcription 6, interleukin-4 induced; signal transducer and activator of transcription 6; D12S1644; IL 4 STAT; STAT, interleukin4-induced; transcription factor IL-4 STAT; STAT6B; STAT6C; IL-4-STAT;
Gene ID	6778
mRNA Refseq	NM_003153
Protein Refseq	NP_003144
MIM	601512
UniProt ID	P42226
SDS-PAGE	