

Recombinant Full Length Human STAT6 Protein, C-Flag-tagged

Cat. No. STAT6-888HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human STAT6 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	94 kDa
AA Sequence	MSLWGLVSKMPPEKVVQRLYVDFPQHLRHLLGDWLESQPWEFLVGSDAFCCNLTSA LLSDTVQHLQASVG EQGEGSTILQHISTLESYQRDPLKLVATFRQILQGEKKAVME

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QFRHLPMPFHWKQEELKFKTGLRRLQ HRVGEIHLREALQKGAEAGQVSLHSLIET
PANGTGPSEALAMLLQETTGELEAAKALVLKRIQWKRRQ QQLAGNGAPFEESLAPL
QERCESLVDIYSQLQQEVGAAGGELEPKTRASLTGRLDEVLRTLVTSCFLVE KQPP
QVLKTQTKFQAGVRFLGLRFLGAPAKPPLVRADMVTEKQARELSVPQGPAGAEES
TGEIINNTV PLENSIPGNCCSALFKNLLLKKIKRCERKGTESVTEEKCAVLFSASFTLG
PGKLPIQLQALSPLVIV HGNQDNNAKATILWDNAFSEMDRVPFVVAERVPWEKM
CETLNLKFMAEVGTNRGLLPEHFLFLAQKIFN DNSLSMEAFQHRSVSWSQFNKEILL
GRGFTFWQWFDGVLDTKRCLRSYWSDRLIIGFISKQYVTSLLL NEPDGTFLLRFSD
SEIGGITIAHVIRGQDGSPQIENIQPFSAKDLSIRSLGDRIRDLAQLKNLYPKKPK DEA
FRSHYKPEQMKGDKRGYVPATIKMTVERDQPLPTPELQMPTMVP SYDLGMAPDSS
MSMQLGPDMVP QVYPPHSHSIPPYQGLSPEESVNVLSAFQEPHLQMPPSLGQMSL
PFDQPHPQGLLPCQPQEHAVSSPDP LLCSDVTMVEDSCLSQPVTAFPQGTWIGEDI
FPPLLPTEQDLTKLLLEGQGESGGGSLGAQPLLQPSH
YGQSGISMSHMDLRANLSWTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, ES Cell Differentiation/IPS, Stem cell relevant signaling - DSL/Notch pathway, Stem cell relevant signaling - JAK/STAT signaling pathway, Transcription Factors

Protein Pathways	Jak-STAT signaling pathway
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Full Length	Full L.
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GENE INFORMATION

Gene Name	STAT6 signal transducer and activator of transcription 6 [Homo sapiens (human)]
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Official Symbol	STAT6
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Synonyms	STAT6B; STAT6C; D12S1644; IL-4-STAT
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Gene ID	6778
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mRNA Refseq	NM_003153.5
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Protein Refseq	NP_003144.3
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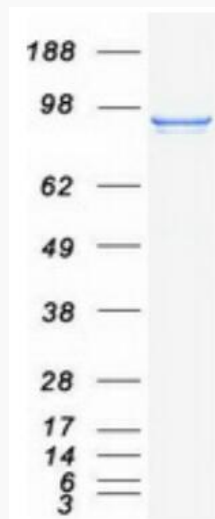
MIM	601512
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UniProt ID	P42226
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Coomassie blue staining of purified STAT6 protein.