

Recombinant Human STAT6, His-tagged

Cat. No. STAT6-30854TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 1-287 of Human STAT6 with N terminal His tag; 287 amino acids, 33kDa.
Species	Human
Source	E.coli
ProteinLength	1-287 a.a.
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.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 147 µl aqua dest.
Storage buffer	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium

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hydrogen phosphate, 10mM Sodium chloride, pH 4.5

Storage

Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

Sequences of amino acids

MSLWGLVSKMPPEKVQRLYVDFPQHRLRHLLGDWLESQPWE FLVGSDAFCCNLAS
 ALLSDTVQHLQASVGEQEGESTIL QHISTLESYQRDPLKLVATFRQILQGEKKAVME
 QFRH LPMPFHWKQEELKFKTGLRRLQHRVGEIHELLREALQKGAE AGQVSLHSLIET
 PANGTGPSEALAMLLQETTGELEAAK ALVLKRIQIWKRQQQLAGNGAPFEESLAPL
 QERCESLV DIYSQLQQEVGAAGGELEPKTRASLTGRLDEVLRTLVT SCFLVEKQPP
 QVLKTQT

Sequence Similarities

Belongs to the transcription factor STAT family.Contains 1 SH2 domain.

GENE INFORMATION

Gene Name

[STAT6 signal transducer and activator of transcription 6, interleukin-4 induced \[Homo sapiens \]](#)

Official Symbol

[STAT6](#)

Synonyms

STAT6; signal transducer and activator of transcription 6, interleukin-4 induced; signal transducer and activator of transcription 6; D12S1644; IL 4 STAT;

Gene ID

[6778](#)

mRNA Refseq

[NM_001178078](#)

Protein Refseq

[NP_001171549](#)

MIM

[601512](#)

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Uniprot ID	P42226
Chromosome Location	12q13
Pathway	Adipogenesis, organism-specific biosystem; Downstream signal transduction, organism-specific biosystem; IL-3 Signaling Pathway, organism-specific biosystem; IL-4 signaling Pathway, organism-specific biosystem; IL12-mediated signaling events, organism-specific biosystem;
Function	calcium ion binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; signal transducer activity;

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