

Recombinant Human STAT6 Protein, His-tagged

Cat. No. STAT6-707H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human STAT6, transcript variant 2, fused with His tag at C-terminal was expressed in E. coli.
Species	Human
Source	E.coli
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	Lyophilized from a 0.2 M filtered solution of PBS, pH 7.4
Molecular Mass	23.9kD
AA Sequence	MSHYKPEQMKGKDGRGYVPATIKMTVERDQPLPTPELQMPTMVPSYDLGMAPDSS MSMQLGPDMVPQVYPPHSHSIPPYQGLSPEESVNVLSAFQEPHLQMPPSLGQMSL PFDQPHPQGLLPCQPQEHAVSSPDLLCSDVTMVEDSCLSQPVTAFPQGTWIGEDI

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FPPLLPTEQDLTKLLLEGQGEGSGGSLGAQPLLQPSHYGQSGISMSLEHHHHHH

Endotoxin Endotoxin level is <0.1 ng/g of protein (<1EU/g).

Purity >95% as determined by SDS-PAGE and Coomassie blue staining

Concentration Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

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; STAT, interleukin4-induced; transcription factor IL-4 STAT; STAT6B; STAT6C; IL-4-STAT;

Gene ID 6778

mRNA Refseq NM_001178078

Protein Refseq NP_001171549

MIM 601512

UniProt ID P42226

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