

Recombinant Human STAT1 Protein

Cat. No. STAT1-040H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Human signal transducer and activator of transcription 1, 91kDa (STAT1), transcript variant beta was expressed in E. coli.
Species	Human
Source	E.coli
Description	The protein encoded by this gene is a member of the STAT protein family. 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 can be activated by various ligands including interferon-alpha, interferon-gamma, EGF, PDGF and IL6. This protein mediates the expression of a variety of genes, which is thought to be important for cell viability in response to different cell stimuli and pathogens. Two alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Jul 2008].
Molecular Mass	83.3 kDa
AA Sequence	GSHMSQWYELQQLDSEFLEQVHQLYDDSFPMERQYLAQWLEKQDWEHAANDVS FATIRFHDLLSQLDDQYSRFSLENNFLLQHNIRKSKRNLQDNFQEDPIQMSMIYSCL KEERKILENAQRFNQAQSGNIQSTVMLDKQKELDSKVRNVKDKVMCIEHEIKSLEDL QDEYDFKCKTLQNREHETNGVAKSDQKQEQLLLKKMYLMLDNKRKEVVHKIIELLNV TELTQNALINDELVEWKRRQQSACIGGPP

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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.
Storage Buffer	Supplied as a 0.2 M filtered solution of PBS, pH 7.4

GENE INFORMATION

Gene Name	STAT1 signal transducer and activator of transcription 1, 91kDa [Homo sapiens]
Official Symbol	STAT1
Synonyms	STAT1; signal transducer and activator of transcription 1, 91kDa; signal transducer and activator of transcription 1, 91kD; signal transducer and activator of transcription 1-alpha/beta; ISGF 3; STAT91; transcription factor ISGF 3 components p91/p84; transcription factor ISGF-3 components p91/p84; signal transducer and activator of transcription-1; CANDF7; ISGF-3; DKFZp686B04100;
Gene ID	6772
mRNA Refseq	NM_007315
Protein Refseq	NP_009330
MIM	600555

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UniProt ID

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