

Recombinant Human STAT1

Cat. No. STAT1-30902TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein STAT1 beta (Human) with N terminal tag
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.
Form	Liquid
Storage buffer	Preservative: None Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM PMSF, pH 7.5
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence	Belongs to the transcription factor STAT family.Contains 1 SH2 domain.

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Similarities

Full Length Full L.

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;

Gene ID 6772

mRNA Refseq NM_007315

Protein Refseq NP_009330

MIM 600555

Uniprot ID P42224

Chromosome Location 2q32.2-q32.3

Pathway Adipogenesis, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; CXCR4-mediated signaling events, organism-specific biosystem; Chemokine signaling pathway, organism-specific biosystem; Chemokine signaling pathway, conserved biosystem;

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Function

DNA binding; RNA polymerase II core promoter sequence-specific DNA binding; RNA polymerase II core promoter sequence-specific DNA binding transcription factor activity; calcium ion binding; non-membrane spanning protein tyrosine kinase activity;

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