Recombinant Human STAT1

Cat. No. STAT1-30903TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human STAT1 expressed in a baculovirus system; amino acids 1-750, 87kDa.
Species	Human
ProteinLength	1-750 a.a.
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.
Biological activity	1 unit equals 1 nanogram of purified protein.
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 20% Glycerol, 20mM Tris HCl, 100mM Potassium chloride, 1mM DTT, 0.2mM EDTA, pH 8.0

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the transcription factor STAT family.Contains 1 SH2 domain.
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,

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	organism-specific biosystem; CXCR4-mediated signaling events, organism-specific biosystem; Chemokine signaling pathway, organism-specific biosystem; Chemokine signaling pathway, conserved biosystem;
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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