

# Recombinant Human Signal Transducer And Activator Of Transcription 1, 91kDa, GST-tagged

Cat. No. STAT1-4885H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant full-length human STAT1 beta was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>Description</b>	<p>STAT1 is a member of the signal transducers and activators of transcription (STAT) family of proteins that carry out a dual function: signal transduction and activation of transcription. STAT1 transcription factor is specific for the IFN pathway and plays a central role in mediating many, if not all, IFN-dependent biological responses. Presence of STAT1 leads to an efficient antiviral response when cells were infected with virus suggesting that a STAT-dependent pathway is activated following virus infection by endogenously produced IFN. Virus-induced STAT protein translocation from the cytoplasmic compartment can be detected within 3 h of infection.</p>
<b>Applications</b>	Kinase Assay; Western Blot
<b>Molecular Weight</b>	118 kDa
<b>Expression System</b>	Sf9 insect cells using baculovirus
<b>Form</b>	Recombinant protein stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150 mM imidazole, 0.1 mM PMSF, 0.25 mM DTT, 25% glycerol.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Purity</b>	> 90 %
<b>Concentration</b>	0.2 ug/ul
<b>Sequences</b>	Full-length
<b>Storage</b>	Store product at -70oC. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
<b>Pathways</b>	Chemokine signaling pathway; Jak-STAT signaling pathway; Pancreatic cancer; Toll-like receptor signaling pathway; Signaling by PDGF

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">STAT1 signal transducer and activator of transcription 1, 91kDa [ Homo sapiens ]</a>
<b>Official Symbol</b>	STAT1
<b>Synonyms</b>	STAT1; signal transducer and activator of transcription 1, 91kDa; ISGF-3; STAT91; DKFZp686B04100; OTTHUMP00000205845; signal transducer and activator of transcription 1; signal transducer and activator of transcription-1; transcription factor ISGF-3 components p91/p84
<b>Gene ID</b>	<a href="#">6772</a>
<b>mRNA Refseq</b>	<a href="#">NM_007315</a>
<b>Protein Refseq</b>	<a href="#">NP_009330</a>
<b>MIM</b>	<a href="#">600555</a>

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<b>UniProt ID</b>	P42224
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<b>Chromosome Location</b>	2q32.2
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<b>Function</b>	calcium ion binding; matopietin/interferon-class (D200-domain) cytokine receptor signal transducer activity; protein binding; sequence-specific DNA binding; signal transducer activity; transcription factor activity
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