Recombinant Human STAT1 Protein, GST-tagged

Cat. No. STAT1-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human STAT1 alpha was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Insect Cells
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. The protein encoded by this gene 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. The protein plays an important role in immune responses to viral, fungal and mycobacterial pathogens. Mutations in this gene are associated with Immunodeficiency 31B, 31A, and 31C.
Molecular Mass	~110 kDa
Purity	> 90%
Stability	One year at -70 centigrade from date of shipment.
Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller

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	quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.2 μg/μL
Storage Buffer	50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25% glycerol.
Shipping	Dry ice.

GENE INFORMATION

Gene Name	STAT1 signal transducer and activator of transcription 1 [Homo sapiens (human)]
Official Symbol	STAT1
Synonyms	STAT1; signal transducer and activator of transcription 1; CANDF7; IMD31A; IMD31B; IMD31C; ISGF-3; STAT91; signal transducer and activator of transcription 1-alpha/beta; signal transducer and activator of transcription 1, 91kD; signal transducer and activator of transcription 1, 91kDa; transcription factor ISGF-3 components p91/p84
Gene ID	6772
mRNA Refseq	NM_139266
Protein Refseq	NP_644671
MIM	600555
UniProt ID	P42224

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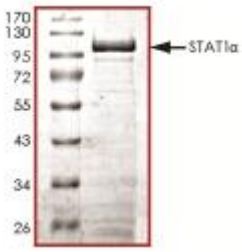
SDS-PAGE	

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