

Recombinant Human STAT1, His-tagged

Cat. No. STAT1-2783H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human STAT1 protein (1-712aa), fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-712 a.a.
Description	STAT1, also known as STAT91, 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. STAT1 is activated by peptide hormones, growth factors and cytokines, particularly cytokines of the interferon family.
Sequences	MGSSHHHHHH SSGLVPRGSH MSQWYELQQL DSKFLEQVHQ LYDDSFPM EI RQYLAQWLEK QDWEHAANDV SFATIRFHD LSQLDDQYSR FSLENNFLLQ HNIRKSKRNL QDNFQEDPIQ MSMIY SCLK EERKILENAQ RFNQAQSGNI QSTVMLDKQK ELDSKVRNVK DKVMCIEHEI KSLEDLQDEY DFKCKTLQNR EHETNGVAKS DQKQEQLLLK KMYLMLDNKR KEVVHKIIE LNVTELTQNA LINDELVEWK RRQQSACIGG PPNACLDQLQ NWFTIVAESL QQVRQQLKKL EELEQKYTYE HDPITKNKQV LWDRTFSLFQ QLIQSSFVVE RQPCMPHPQ RPLVLKTGVQ FTVKLRLLVK LQELNYNLKV KVLFDKDVNE RNTVKGFRKF

 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

NILGTHTKVM NMEESTNGSL AAEFRHLQLK EQKNAGTRTN EGPLIVTEEL
 HSLSFETQLC QPGLVIDLET TSLPVVVISN VSQLPSGWAS ILWYNMLVAE
 PRNLSFFLTP PCARWAQLSE VLSWQFSSVT KRGLNVDQLN MLGEKLLGPN
 ASPDGLIPWT RFCKENINDK NFPFWLWIES ILELIKHHLL PLWNDGCIMG
 FISKERERAL LKDQQPGTFL LRFSESSREG AITFTWVERS QNGGEPDFHA
 VEPYTKKELS AVTFPDIIRN YKVMAAENIP ENPLKYLYPN IDKDHAFGKY
 YSRPKEAPEP MELDGPKG TGYIKTELISVS EV.

Form

Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 0.1M NaCl, 1mM DTT, 10% glycerol.

Molecular Weight

85.2 kDa (732aa), confirmed by MALDI-TOF.

Purity

> 90% by SDS – PAGE.

Concentration

0.5 mg/ml (determined by Bradford assay).

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name

STAT1 signal transducer and activator of transcription 1, 91kDa [Homo sapiens]

Synonyms

STAT1; signal transducer and activator of transcription 1, 91kDa; transcription factor ISGF-3 components p91/p84; Signal transducer and activator of transcription 1- alpha/beta; ISGF-3; STAT91; DKFZp686B04100; signal transducer and activator of transcription 1; OTTHUMP00000205845; signal transducer and activator of transcription-1; OTTHUMP00000165047; Transcription factor ISGF-3 components p91/p84

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Gene ID	6772
mRNA Refseq	NM_007315
Protein Refseq	NP_009330
MIM	600555
UniProt ID	P42224
Chromosome Location	2q32.2-q32.3
Pathway	Chemokine signaling pathway; Jak-STAT signaling pathway; Pancreatic cancer; Pathways in cancer; Toll-like receptor signaling pathway; Signaling by PDGF
Function	calcium ion binding; hematopoietin/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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