

## 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**

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MGSSHHHHHH SSSLVPRGSH MSQWYELQQL DSKFLEQVHQ LYDDSFPM EI
RQYLAQWLEK QDWEHAANDV SFATIRFHDL LSQLDDQYSR FSLENNFLLQ
HNIRKSKRNL QDNFQEDPIQ MSMIYSC LK 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
    
```

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NILGTHTKVM NMEESTNGSL AAEFRHLQLK EQKNAGTRTN EGPLIVTEEL  
 HSLSFETQLC QPGLVIDLET TSLPVVVISN VSQLPSGWAS ILWYNMLVAE  
 PRNLSFFLTP PCARWAQLSE VLSWQFSSVT KRGLNVDQLN MLGEKLLGPN  
 ASPDGLIPWT RFCKENINDK NFPFWLWIES ILELIKKHLL 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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<b>Gene ID</b>	6772
<b>mRNA Refseq</b>	NM_007315
<b>Protein Refseq</b>	NP_009330
<b>MIM</b>	600555
<b>UniProt ID</b>	P42224
<b>Chromosome Location</b>	2q32.2-q32.3
<b>Pathway</b>	Chemokine signaling pathway; Jak-STAT signaling pathway; Pancreatic cancer; Pathways in cancer; Toll-like receptor signaling pathway; Signaling by PDGF
<b>Function</b>	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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