

# Recombinant human STAT1 protein

Catalog Number: ATGP0685

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-712aa

### UniProt No.

P42224

### NCBI Accession No.

NP\_644671.1

### Alternative Names

Signal transducer and activator of transcription 1 91kDa, ISGF-3, STAT91, Transcription factor ISGF-3 components p91/p84, Signal transducer and activator of transcription 1, 91kDa

## PRODUCT SPECIFICATION

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### Molecular Weight

85.2 kDa (732aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 1mM DTT, 10% glycerol

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### 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. Recombinant human STAT1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional

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chromatography techniques.

## Amino acid Sequence

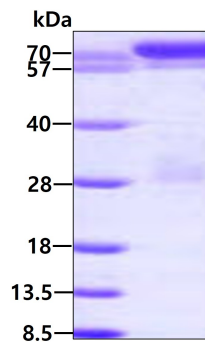
<MGSSHHHHHH SSGLVPRGSH> MSQWYELQQL DSKFLEQVHQ LYDDSPMEI RQYLAQWLEK QDWEHAANDV SFATIRFHDL LSQLDDQYSR FSLENNFLLQ HNIKRSKRNL QDNFQEDPIQ MSMIIYSCLK EERKILENAQ RFNQAQSGNI QSTVMLDKQK ELDSKVRNVK DKVMCIEHEI KSLEDLQDEY DFKCKTLQNR EHETNGVAKS DQKQEQLLLK KMYLMLDNKR KEVVHKIIEI LNVTELTQNA LINDELVEWK RRQQSACIGG PPNACLDQLQ NWFIVAESL QQVRQQLKKL EELEQKYTYE HDPITKNKQV LWDRTFSLFQ QLIQSSFVVE RQPCMPHPQ RPLVLKTGVQ FTVKLRLLVK LQELNYNLKV KVLFDKDVNE RNTVKGFRKF 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 TG YIKTELISVS EV

## General References

Farlik M., et al. (2010) Immunity. 33(1):25-34.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.