

Recombinant human STAT1 protein

Catalog Number: ATGP0685

PRODUCT INFORMATION

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

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

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

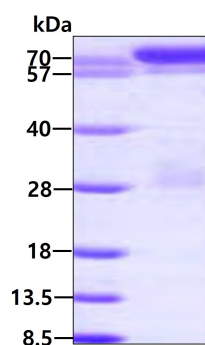
<MGSSHHHHHH SSGLVPRGSH> MSQWYELQQL DSKFLEQVHQ LYDDSFPM EI RQYLAQWLEK QDWEHAANDV
SFATIRFHD LLSQLDDQYSR FSLENNFLLQ HNIRKSKRNL QDNFQEDPIQ MSMIIYSCLK EERKILENAQ RFNQAQSGNI
QSTVMLDKQK ELDSKVRNVK DKVMCIEHEI KSLEDLQDEY DFKCKTLQNR EHETNGVAKS DQKQEQLLLK KMYLMLDNKR
KEVVHKIIE LNVTELTQNA LINDELVEWK RRQQSACIGG PPNACLDQLQ NWFTIVAESL QQVRQQLKKL EELEQKYTYE
HDPITKNKQV LWDRTFSLFQ QLIQSSFVVE RQPCMPHPQ RPLVLKTGVQ FTVKLRLLVK LQELNYNLKV KVLFDKDVNE
RNTVKGFRKF NILGTHTKVM NMEESTNGSL AAEFRHLQLK EQKNAGTRTN EGPLIVTEEL HSLSFETQLC QPGLVIDLET
TSLPVVVISN VSQLP SGWAS ILWYNMLVAE PRNLSFFLTP PCARWAQLSE VLSWQFSSVT KRGLNVDQLN MLGEKLLGPN
ASPDGLIPWT RFCKENINDK NFPFWLWIES ILELIKKHLL PLWNDGCIMG FISKERERAL LKDQQPGTFL LRFSESSREG
AITFTWVERS QNGGEPDFHA VEPYTKKELS AVTFPDIIRN YKVMAAENIP ENPLKYLYPN IDKDHAFGKY YSRPKEAPEP
MELDGPKGTG 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.