

## 32-3114: STAT1 Recombinant Protein

**Alternative Name** : Signal transducer and activator of transcription 1-alpha/beta, Transcription factor ISGF-3 components p91/p84, STAT1, ISGF-3, STAT91, DKFZp686B04100.

### Description

Source : Escherichia Coli. STAT1 Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 732 amino acids (1-712 a.a.) and having a molecular mass of 85.2 kDa. The STAT1 is fused to 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques. STAT1 is a member of the Signal Transducers and Activators of Transcription family of transcription factors. STAT1 is involved in upregulating genes due to a signal by either type I or type II interferons. In response to IFN-stimulation, STAT1 forms homodimers or heterodimers with STAT3 that bind to the GAS (Interferon-Gamma Activated Sequence) promoter element; in response to either IFN- or IFN-stimulation, STAT1 forms a heterodimer with STAT2 that can bind the ISRE (Interferon Stimulated Response Element) promoter element. In either case, binding of the promoter element leads to an increased expression of ISG (Interferon Stimulated Genes).

### Product Info

<b>Amount :</b>	10 µg
<b>Purification :</b>	Greater than 90% as determined by SDS-PAGE.
<b>Content :</b>	STAT1 0.5mg/ml protein solution contains 20mM Tris-HCl buffer pH-8, 0.1M NaCl, 1mM DTT and 10% glycerol.
<b>Storage condition :</b>	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles.
<b>Amino Acid :</b>	MGSSHHHHHH SSGLVPRGSH MSQWYELQQL DSKFLEQVHQ LYDDSPMEI RQYLAQWLEK QDWEHAANDV SFATIRFHDH LSQLEDDQYSR FSLENNFLLQ HNIKRSKRNL QDNFQEDPIQ MSMIIYSCLK EERKILENAQ RFNQAQSGNI QSTVMLDKQK ELDSKVRNVK DKVMCIEHEI KSLEDLQDEY DFKCKTLQNR EHETNGVAKS DQKQEQLLLK KMYLMLDNKR KEVVHKIIEI LNVTELTQNA LINDELVEWK RRQQSACIGG PPNAQLDQLQ NWFIVAESL QQVRQQLKLL EELEQKYTYE HDPITKNKQV LWDRTFSLFQ QLIQSSFVVE RQPCMPHPQ RPLVLKGTGVQ FTVKLRLLVK LQELNYNLKV KVLFDKDVNE RNTVKGFRKF NILGHTTKVM NMEESTNGSL AAEFRHLQLK EQKNAGTRTN EGPLIVTEEL HSLSFETQLC QPGLVIDLET TSLPVVVISN VSQLEPSGWAS ILWYNMLVAE PRNLSFFLTP PCARWAQLSE VLSWQFSSVT KRGLNVDQLN MLGEKLLGPN ASPDGLIPWT RFCKENINDK NFPFWLWIES ILELIKHL PLWNDGCIMG FISKERERAL LKQQPGTFL LRFSESSREG AITFTWVERS QNGGEPDFHA VEPYTKKELS AVTFPDIIRN YKVMAAENIP ENPLKYLYPN IDKDHAFGKY YSRPKEAPEP MELDGPKGTG YIKTELISVS EV.

