

---

**Product Data Sheet**


---

Product Name: STAT1 Human

Cat. No.: GP22625

Batch No.: 1

**Product Data**

Purity &gt;98%

Source Escherichia Coli.

Physical  
Appearance solidShipping  
Condition Shipped with Ice Packs.

Synonyms Signal transducer and activator of transcription 1-alpha/beta;  
Transcription factor ISGF-3 components p91/p84; STAT1; ISGF-3; STAT91;  
DKFZp686B04100.

Amino Acid  
Sequence

MGSSHHHHH SGLVPRGSH MSQWYELQQL DSKFLEQVHQ LYDDSFPMEI  
RQYLAQWLEK QDWEHAANDV SFATIRFHDL LSQLEDDQYSR FSLENNFLLQ  
HNIRKSKRNL QDNFQEDPIQ MSMIIYSCLK EERKILENAQ RFNQAQSGNI  
QSTVMLDKQK ELDSKVRNVK DKVMCIEHEI KSLEDLQDEY DFKCKTLQNR  
EHETNGVAKS DQKQEQLLLK KMYLMLDNKR KEVVHKIIEI LNVTELTQNA  
LINDELVEWK RRQQSACIGG PPNACLDQLQ NWFTIVAESL QQVRQQLKKL  
EELEQKYTYE HDPITKNKQV LWDRTFSLFQ QLIQSSFVVE RQPCMPHPQ  
RPLVLKTGVQ FTVKLRLLLVK LQELNYNLKV KVLFDKDVNE RNTVKGFRKF  
NILGHTHKVM NMEESTNGSL AAEFRHLQLK EQKNAGTRTN EGPLIVTEEL  
HLSLFETQLC QPGLVIDLET TSLPVVVISN VSQLEPSGWAS ILWYNMLVAE  
PRNLSFFLTP PCARWAQLSE VLSWQFSSVT KRGLNVDQLN MLGEKLLGPN  
ASPDGLIPWT RFCKENINDK NFPFWLWIES ILELIKHL PLWNDGCIMG  
FISKERERAL LKDQQPGTFL LRFSESSREG AITFTWVERS QNGGEPDFHA  
VEPYTKKELS AVTFPDIIRN YKVMAAENIP ENPLKYLYPN IDKDHAFGKY  
YSRPKEAPEP MELDGPKGTG YIKTELISVS EV.

Formulation STAT1 0.5mg/ml protein solution contains 20mM Tris-HCl buffer pH-8,  
0.1M NaCl, 1mM DTT and 10% glycerol.

**Introduction**

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- $\gamma$  stimulation, STAT1 forms homodimers or

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

---

---

## Product Data Sheet

---

heterodimers with STAT3 that bind to the GAS (Interferon-Gamma Activated Sequence) promoter element; in response to either IFN- $\gamma$  or IFN- $\alpha$  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).

### Stability

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.

### Background

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 a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA