



Recombinant Human Signal transducer and activator of transcription 1-alpha/beta (STAT1)

Product Code	CSB-EP022810HU-B
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P42224
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	MSQWYELQQL DSKFLEQVHQ LYDDSPMEI RQYLAQWLEK QDWEHAANDV SFATIRFHDL LSQLDDQYSR FSLENNFLLQ HNIKSKRNL QDNFQEDPIQ MSMIYSCLK EERKILENAQ RFNQAQSGNI QSTVMLDKQK ELDSKVRNVK DKVMCIEHEI KSLEDLQDEY DFKCKTLQNR EHETNGVAKS DQKQEQLLLK KMYLMLDNKR KEVVHKIIEI LNVTELTQNA LINDELVEWK RRQQSACIGG PPNACLDQLQ NWFTIVAESL QQVRQQLKKL EELEQKYTYE HDPITKNKQV LWDRTFSLFQ QLIQSSFVVE RQPCMPHPQ RPLVLKTGVQ FTVKLRLLVK LQELNYNLKV KVLFDKDVNE RNTVKGFRKF NILGTHTKVM NMEESTNGSL AAEFRHLQK EQKNAGTRTN EGPLIVTEEL HSLSFETQLC QPGLVIDLET TSLPVVVISN VSQLPSGWAS ILWYNMLVAE PRNLSFFLTP PCARWAQLSE VLSWQFSSVT KRGLNVDQLN MLGEKLLGPN ASPDGLIPWT RFCKENINDK NPPFWLWIES ILELIKHLL PLWNDGCIMG FISKERERAL LKDQQPGTFL LRFSESSREG AITFTWVERS QNGGEPDFHA VEPYTKKELS AVTFPDIIRN YKVMAAENIP ENPLKYLYPN IDKDHAFGKY YSRPKEAPEP MELDGPKGTG YIKTELISVS EVHPSRLQTT DNLLPMSPEE FDEVSRIVGS VEFDSMMNTV
Source	E.coli
Target Names	STAT1
Protein Names	Recommended name: Signal transducer and activator of transcription 1-alpha/beta Alternative name(s): Transcription factor ISGF-3 components p91/p84
Expression Region	1-750
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full length protein
Target Details	This protein 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. This protein can be activated by various ligands including interferon-alpha, interferon-gamma, EGF, PDGF and IL6. This protein mediates the expression of a variety of genes,



which is thought to be important for cell viability in response to different cell stimuli and pathogens. Two alternatively spliced transcript variants encoding distinct isoforms have been described.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.