



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

<b>Product Code</b>	CSB-YP022810HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P42224
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	<p>MSQWYELQQL DSKFLEQVHQ LYDDSPMEI RQYLAQWLEK            QDWEHAANDV SFATIRFHDL LSQLDDQYSR FSLENNFLLQ HNIKRSKRNL            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 TSLPVVISN 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</p>
<b>Source</b>	Yeast
<b>Target Names</b>	STAT1
<b>Protein Names</b>	Recommended name: Signal transducer and activator of transcription 1-alpha/beta Alternative name(s): Transcription factor ISGF-3 components p91/p84
<b>Expression Region</b>	1-750
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length protein
<b>Target Details</b>	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.

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**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.

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**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.