



Recombinant Mouse Signal transducer and activator of transcription 5A (Stat5a)

Product Code	CSB-EP022814MO
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P42230
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	>85% (SDS-PAGE)
Sequence	MAGWIAQQL QGDALRQMQV LYGQHFPPIEV RHYLAQWIES QPWDAIDLND PQDRGQATQL LEGLVQELQK KAEHQVGEDG FLLKIKLGHY ATQLQNTYDR CPMELVRCIR HILYNEQRLV REANNCSSPA GVLVDAMSQK HLQINQRFEE LRLITQDTEN ELKKLQQTQE YFIIQYQESL RIQAQFAQLG QLNPQERMSR ETALQQKQVS LETWLQREAQ TLQQYRVELA EKHQKTLQLL RKQQTIILDD ELIQWKRRQQ LAGNGGPPEG SLDVLQSWCE KLAEIWQNR QQIRRAEHLG QQLPIGPVE EMLAEVNATI TDIISALVTS TFIIEKQPPQ VLKTQTKFAA TVRLLVGGKL NVHMNPPQVK ATIISEQQA SLLKNENTRN ECSGEILNNC CVMEYHQATG TLSAHFRNMS LKRIKRRDRR GAESVTEEFK TVLFESQFSV GSNELVFQVK TSLPVVVIV HGSQDHNATA TVLWDNAFAE PGRVPFAVPD KVLWPQLCEA LNMKFKAEVQ SNRGLTKENL VFLAQKLFNI SSNHLEDYNS MSVSWSQFNR ENLPGWNYTF WQWFDGVM EV LKKHHKPHWN DGAILGFVNK QQAHDLLINK PDGTFLLRFS DSEIGGITIA WKFDSPDRNL WNLKPFTTRD FSIRSLADRL GDLNYLIYVF PDRPKDEVFA KYYPVLAKA VDGYVKPQIK QVVPEFVNAS TDAGASATYM DQAPSPVCP QPHYNMYPNP PDPVLDQDGE FDLDESMDVA RHVEELLRRP MDSLDRALSP PAGLFTSARS SLS
Source	E.coli
Target Names	Stat5a
Protein Names	Recommended name: Signal transducer and activator of transcription 5A Alternative name(s): Mammary gland factor
Expression Region	1-793
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 family of transcription factors. 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 is activated by, and mediates the responses of many cell ligands, such as IL2, IL3, IL7 GM-CSF, erythropoietin, thrombopoietin, and different growth



hormones. Activation of this protein in myeloma and lymphoma associated with a TEL/JAK2 gene fusion is independent of cell stimulus and has been shown to be essential for the tumorigenesis. The mouse counterpart of this gene is found to induce the expression of BCL2L1/BCL-X(L), which suggests the antiapoptotic function of this gene in cells.

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.