



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

<b>Product Code</b>	CSB-MP022814RA
<b>Abbreviation</b>	Stat5a
<b>Storage</b>	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.
<b>Uniprot No.</b>	Q62771
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MAGWIIQAQQL QGDALRQMQV LYGQHFPIEV RHYLAQWIES QPWDAIDLND PQDRGQATQL LEGLVQELQK KAEHQVGEDG FVLKIKLGHY ATQLQNTYDR CPMELVRCIR HILYNEQRLV REANNCSSPA GVLVDAMSQK HLQINQTFEE LRLITQDTESE LKKLQQTQE YFIIQYQESL RIQAQFGQLA QLNPQERMSR ETALQQKQVS LETWLQREAQ TLQQYRVELV EKHQKTLQLL RKQQTIIIDD ELIQWKRGGQ LAGNGGPPEG SLDVLQSWCE KLAEIWQNR QQIRRAEHLCL QQLPIPGPVE EMLAEVNATI TDIISALVTS TFIIEKQPPQ VLKTQTKFAA TVRLLVGGKL NVHMNPPQVK ATIISEQQA SLLKNENTRN DYSGEILNNC CVMEYHQATG TLSAHFRNMS LKRIKRADRR GAESVTEEFK TVLFESQFSV GSNELVFQVK TSLPVVVIV HGSQDHNATA TVLWDNAFAE PGRVPFAVPD KVLWPQLCEA LNMKFKAEVQ SNRGLTKENL VFLAQKLFNR RSNHLEDYNS MSVSWSQFNR ENLPGWNYTF WQWFDGVMEV LKKHHKPHWN DGAILGFVNK QQAHDLLINK PDGTFLRFS DSEIGGITIA WKFDSPDRNL WNLKPFTTRD FSIRSLADRL GDLNYLIYVF PDRPKDEVFA KYYPVLAKA VDGYVKPQIK QVVPEFVNAS ADAGANATYM DQAPSPVCP QAHYNYPPN PDPVLDQDGE FDLDETMDVA RHVEELLRRP MDSLDPRLSP PAGLFTSARS SLS
<b>Source</b>	Mammalian cell
<b>Target Names</b>	Stat5a
<b>Protein Names</b>	Recommended name: Signal transducer and activator of transcription 5A Alternative name(s): Mammary gland factor
<b>Expression Region</b>	1-793
<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 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.

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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**

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