



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

Product Code	CSB-EP022814RA
Abbreviation	Stat5a
Storage	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.
Uniprot No.	Q62771
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	>85% (SDS-PAGE)
Sequence	MAGWIAQQQL QGDALRQMQRV LYGQHFPIEV RHYLAQWIES QPWDALDLN PQDRGQATQL LEGLVQELQK KAEHQVGEDG FVLKIKLGHY ATQLQNTYDR CPMELVRCIR HILYNEQRLV REANNCSSPA GVLVDAMSQK HLQINQTFEE LRLITQDTESE LKKLQQTQE YFIIQYQESL RIQAQFGQLA QLNPQERMSR ETALQQKQVS LETWLQREAQ TLQQYRVELV EKHQKTLQLL RKQQTIIIDD ELIQWKRGGQQ LAGNGGPPEG SLDVLQSWCE KLAEIWQNR QQIRRAEHLK QQLPIPGPVE EMLAEVNATI TDIISALVTS TFIIEKQPPQ VLKTQTKFAA TVRLLVGGKL NVHMNPPQVK ATIISEQQAK SLLKNENTRN DYSGEILNNC CVMEYHQATG TLSAHRNMS LKRIKRADRR GAESVTEEFK TVLFESQFSV GSNELVFQVK TSLPVVVIV HGSQDHNATA TVLWDNAFAE PGRVPPFAVPD KVLWPQLCEA LNMKFKAEVQ SNRGLTKENL VFLAQKLFNR RSNHLEDYNS MSVSWSQFNR ENLPGWNYTF WQWFDGVMEV LKKHHKPHWN DGAILGFVVK QQAHDLLINK PDGTFLRFS DSEIGGITIA WKFDSPDRNL WNLKPFTTRD FSIRSLADRL GDLNYLIYVF PDRPKDEVFA KYYPVLAKA VDGYVKPQIK QVVPEFVNAS ADAGANATYM DQAPSPVCP QAHYNMYPNP PDPVLDQDGE FDLDETMDVA RHVEELLRRP MDSLDPRLSP 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

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