

## Signal Transducer And Activator Of Transcription 3 Recombinant Protein | STAT3 recombinant protein

Recombinant Signal Transducer And Activator Of Transcription 3 (STAT3)

|                               |                       |                                                                           |
|-------------------------------|-----------------------|---------------------------------------------------------------------------|
| CATALOG #<br><b>AAA145485</b> | HOST<br><b>E Coli</b> | APPLICATIONS<br><b>Immunoprecipitation, ELISA, Western Blot, SDS-Page</b> |
|-------------------------------|-----------------------|---------------------------------------------------------------------------|

### PRODUCT SYNONYMS

Signal Transducer And Activator Of Transcription 3; Recombinant Signal Transducer And Activator Of Transcription 3 (STAT3); APRF; Acute-Phase Response Factor; STAT3 recombinant protein

### PRODUCT SPECIFICATIONS

|                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                  | E Coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Purity/Purification                                   | > 95%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Form/Format                                           | Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Sequence                                              | MSPILGYWKI KGLVQPTRLL LEYLEEKYEE HLYERDEGDK WRNKKFELGL EFPNLPYYID GDVKLTQSMA IIRYIADKHN MLGGCPKERA EISMLEGAVL DIRYGVSRIA YSKDFETLKV DFLSKLPEML KMFEDRLCHK TYLNGDHVTH PDFMLYDALD VVLYMDPMCL DAFPKLVCFK KRIEAIQID KYLKSSKYIA WPLQGWQATF GGGDHPPKSD GSTSGSGHHH HHHSAGLVPR GSTAIGMKET AAAKFERQHM DSPDLGTGGG SGIEGRGSMG YRGSEF-GYK IMDATNILVS PLVLYPDIP KEEAFGKYCR PESQEHPEAD PGSAAPYLKT KFCVTP TTC SNTIDLPMSP RTLDSLMQFG NNGEGAEPSA GGQFESLTFD MDLTSECATS                                                                                                                                                                                   |
| Sequence Length                                       | 770                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Applicable Applications for STAT3 recombinant protein | IP (Immunoprecipitation), ELISA, WB (Western Blot), SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Predicted Molecular Mass                              | 44.7kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Usage                                                 | Reconstitute in sterile PBS, pH7.2-pH7.4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Endotoxin Level                                       | <1.0EU per 1 ug (determined by the LAL method)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Expression System                                     | Prokaryotic expression                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Fragment                                              | Gly656~Ser768                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Organism Species                                      | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Tag                                                   | two N-terminal Tags, His-tag and GST-tag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Preparation and Storage                               | <p>Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months.</p> <p>Stability Test: The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.</p> |

IMAGES



SDS-PAGE



Sequence

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                  |
|----------------------------------|----------------------------------------------------------------------------------|
| NCBI GI #                        | 6981592                                                                          |
| NCBI GeneID                      | 25125                                                                            |
| NCBI Accession #                 | NP_036879.1                                                                      |
| NCBI GenBank Nucleotide #        | NM_012747.2                                                                      |
| Molecular Weight                 | 88,040 Da                                                                        |
| NCBI Official Full Name          | signal transducer and activator of transcription 3                               |
| NCBI Official Synonym Full Names | signal transducer and activator of transcription 3 (acute-phase response factor) |
| NCBI Official Symbol             | Stat3                                                                            |
| NCBI Protein Information         | signal transducer and activator of transcription 3                               |
| UniProt Protein Name             | Signal transducer and activator of transcription 3                               |
| UniProt Gene Name                | Stat3                                                                            |
| UniProt Entry Name               | STAT3_RAT                                                                        |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.