

# Signal transducer and activator of transcription 3 Recombinant Protein | STAT3 recombinant protein

Recombinant Human Signal transducer and activator of transcription 3

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| CATALOG #<br><b>AAA113406</b> | HOST<br><b>E Coli or Yeast or Baculovirus or Mammalian Cell</b> |
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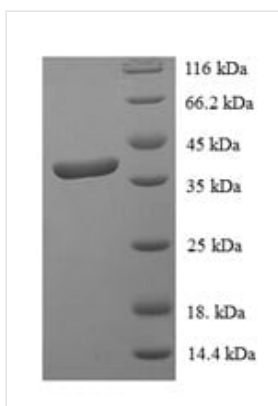
## PRODUCT SYNONYMS

Signal transducer and activator of transcription 3; Recombinant Human Signal transducer and activator of transcription 3; Acute-phase response factor; STAT3 recombinant protein

## PRODUCT SPECIFICATIONS

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| Host                    | E Coli or Yeast or Baculovirus or Mammalian Cell                                                                                                                                                                        |
| Purity/Purification     | Greater or equal to 85% purity as determined by SDS-PAGE.                                                                                                                                                               |
| Form/Format             | Lyophilized or liquid (Format to be determined during the manufacturing process)                                                                                                                                        |
| Sequence Positions      | 50-240. Partial                                                                                                                                                                                                         |
| Sequence                | ESHATLVFHN LLGEIDQQYS RFLQESNVLY QHNLRRIKQF LQSRYLEKPM EIARIVARCL WEESRLLQTA<br>ATAAQGGQA NHPTAAVVTE KQQMLEQLHQ DVRKRVQDLE QKMKVVENLQ DDFDFNYKTL KSQGDMQDLN<br>GNNQSVTRQK MQQLEQMLTA LDQMRRSIVS ELAGLLSAME YVQKTLTDEE L |
| Preparation and Storage | Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.                                                                                                                                  |

## IMAGES



SDS-PAGE

## ADDITIONAL INFORMATION

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| Related Product Information for STAT3 recombinant protein | Signal transducer and transcription activator that mediates cellular responses to interleukins, KITLG/SCF and other growth factors. May mediate cellular responses to activated FGFR1, FGFR2, FGFR3 and FGFR4. Binds to the interleukin-6 (IL-6)-responsive elements identified in the promoters of various acute-phase protein genes. Activated by IL31 through IL31RA. Cytoplasmic STAT3 represses macroautophagy by inhibiting EIF2AK2/PKR activity. Plays an important role in host defense in methicillin-resistant S. aureus lung infection by regulating the expression of the antimicrobial lectin REG3G. |
| Product Categories/Family for STAT3 recombinant protein   | Immunology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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| References | <p>Molecular cloning of APRF, a novel IFN-stimulated gene factor 3 p91-related transcription factor involved in the gp130-mediated signaling pathway.Akira S., Nishio Y., Inoue M., Wang X.-J., Wei S., Matsusaka T., Yoshida K., Sudo T., Naruto M., Kishimoto T.Cell 77:63-71(1994) Highly conserved amino-acid sequence between murine STAT3 and a revised human STAT3 sequence.Della Pietra L., Bressan A., Pezzotti A., Serlupi-Crescenzi O.Gene 213:119-124(1998) Methods for treating chronic kidney disease.Feinstein E., Adamsky S., Erlich S., Molitoris B.Patent number EP2440214, 18-APR-2012Complete sequencing and characterization of 21,243 full-length human cDNAs.Ota T., Suzuki Y., Nishikawa T., Otsuki T., Sugiyama T., Irie R., Wakamatsu A., Hayashi K., Sato H., Nagai K., Kimura K., Makita H., Sekine M., Obayashi M., Nishi T., Shibahara T., Tanaka T., Ishii S., Yamamoto J., Saito K., Kawai Y., Isono Y., Nakamura Y., Nagahari K., Murakami K., Yasuda T., Iwayanagi T., Wagatsuma M., Shiratori A., Sudo H., Hosoiri T., Kaku Y., Kodaira H., Kondo H., Sugawara M., Takahashi M., Kanda K., Yokoi T., Furuya T., Kikkawa E., Omura Y., Abe K., Kamihara K., Katsuta N., Sato K., Tanikawa M., Yamazaki M., Ninomiya K., Ishibashi T., Yamashita H., Murakawa K., Fujimori K., Tanai H., Kimata M., Watanabe M., Hiraoka S., Chiba Y., Ishida S., Ono Y., Takiguchi S., Watanabe S., Yosida M., Hotuta T., Kusano J., Kanehori K., Takahashi-Fujii A., Hara H., Tanase T.-O., Nomura Y., Togiya S., Komai F., Hara R., Takeuchi K., Arita M., Imose N., Musashino K., Yuuki H., Oshima A., Sasaki N., Aotsuka S., Yoshikawa Y., Matsunawa H., Ichihara T., Shiohata N., Sano S., Moriya S., Momiyama H., Satoh N., Takami S., Terashima Y., Suzuki O., Nakagawa S., Senoh A., Mizoguchi H., Goto Y., Shimizu F., Wakebe H., Hishigaki H., Watanabe T., Sugiyama A., Takemoto M., Kawakami B., Yamazaki M., Watanabe K., Kumagai A., Itakura S., Fukuzumi Y., Fujimori Y., Komiyama M., Tashiro H., Tanigami A., Fujiwara T., Ono T., Yamada K., Fujii Y., Ozaki K., Hirao M., Ohmori Y., Kawabata A., Hikiji T., Kobatake N., Inagaki H., Ikema Y., Okamoto S., Okitani R., Kawakami T., Noguchi S., Itoh T., Shigeta K., Senba T., Matsumura K., Nakajima Y., Mizuno T., Morinaga M., Sasaki M., Togashi T., Oyama M., Hata H., Watanabe M., Komatsu T., Mizushima-Sugano J., Satoh T., Shirai Y., Takahashi Y., Nakagawa K., Okumura K., Nagase T., Nomura N., Kikuchi H., Masuho Y., Yamashita R., Nakai K., Yada T., Nakamura Y., Ohara O., Isogai T., Sugano S.Nat. Genet. 36:40-45(2004) SeattleSNPs variation discovery resourceDNA sequence of human chromosome 17 and analysis of rearrangement in the human lineage.Zody M.C., Garber M., Adams D.J., Sharpe T., Harrow J., Lupski J.R., Nicholson C., Searle S.M., Wilming L., Young S.K., Abouelleil A., Allen N.R., Bi W., Bloom T., Borowsky M.L., Bugalter B.E., Butler J., Chang J.L., Chen C.-K., Cook A., Corum B., Cuomo C.A., de Jong P.J., DeCaprio D., Dewar K., FitzGerald M., Gilbert J., Gibson R., Gnerre S., Goldstein S., Grafham D.V., Grocock R., Hafez N., Hagopian D.S., Hart E., Norman C.H., Humphray S., Jaffe D.B., Jones M., Kamal M., Khodiyar V.K., LaButti K., Laird G., Lehoczy J., Liu X., Lokyitsang T., Loveland J., Lui A., Macdonald P., Major J.E., Matthews L., Mauceli E., McCarroll S.A., Mihalev A.H., Mudge J., Nguyen C., Nicol R., O'Leary S.B., Osoegawa K., Schwartz D.C., Shaw-Smith C., Stankiewicz P., Steward C., Swarbreck D., Venkataraman V., Whittaker C.A., Yang X., Zimmer A.R., Bradley A., Hubbard T., Birren B.W., Rogers J., Lander E.S., Nusbaum C.Nature 440:1045-1049(2006)</p> |
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NCBI AND UNIPROT INFORMATION

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| NCBI GI #                        | 21618338                                                                         |
| NCBI GeneID                      | 6774                                                                             |
| NCBI Accession #                 | NP_003141.2                                                                      |
| NCBI GenBank Nucleotide #        | NM_003150.3                                                                      |
| UniProt Accession #              | P40763; O14916; Q9BW54; A8K7B8; K7ENL3                                           |
| Molecular Weight                 | 38.3 kDa                                                                         |
| NCBI Official Full Name          | signal transducer and activator of transcription 3 isoform 2                     |
| NCBI Official Synonym Full Names | signal transducer and activator of transcription 3 (acute-phase response factor) |
| NCBI Official Symbol             | STAT3                                                                            |
| NCBI Official Synonym Symbols    | APRF; HIES; ADMIO                                                                |
| 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_HUMAN                                                                      |

**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.

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Online datasheet: <https://www.aaabiotech.com/stat3-recombinant-protein-e-coli/113406>