

Recombinant Human STAT3 protein, His-tagged

Cat. No. STAT3-316H **Lot. No.** (See product label)

SPECIFICATION

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|-------------------------|--|
| Product Overview | Recombinant Human STAT3 protein (full Length, 1-770aa) was expressed in Yeast with N-terminal 6xHis tag. |
| Species | Human |
| Source | Yeast |
| ProteinLength | 1-770 a.a. |
| Description | 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 domain STAT3 represses macroautophagy by inhibiting EIF2AK2/PKR activity. Plays an important role in host defense in methicillin-resistant <i>S.aureus</i> lung infection by regulating the expression of the antimicrobial lectin REG3G. |
| Form | Tris-based buffer, 50% glycerol. |
| Molecular Mass | 90kDa |
| AA Sequence | MAQWNQLQLDTRYLEQLHQLYSDSFPMELRQFLAPWIESQDWAYAASKESHATL VFHLLGEIDQQYSRFLQESNVLYQHNLRRIKQFLQSRYLEKPMIARIVARCLWEES RLLQTAATAAQGGQANHPTAAVVTEKQQMLEQLQDVRKRVRQDLEQKMKVVENL |

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QDDDFDFNYKTLKSQGDMQDLNGNNSVTRQKMQQLEQMLTALDQMRRSIVSELA
 GLLSAMEYVQKTLTDEELADWKRRQQIACIGGPPNICLDRLLENWITSLAESQLQTRQ
 QIKKLEELQQKVSYKGDPIVQHRPMLLEERIVELFRNLMKSAFVVERQPCMPMHPDR
 PLVIKTGVQFTTKVRLLVKFPENYQLKIKVCIDKDSGDVAALRGSRKFNILGTNTKVM
 NMEESNNGSLSAEFKHLTLREQRCGNGGRANCDASLIVTEELHLITFETEYVHQGLK
 IDLETHSLPVVVISNICQMPNAWASILWYNMLTNNPKNVNFFTKPPIGTWDQVAEVL
 WQFSSTTKRGLSIEQLTTLAEKLLGPGVNYSGCQITWAKFCKENMAGKGFVWVWL
 DNIIDLKYYILALWNEGYIMGFISKERERAILSTKPPGTFLLRFSESSKEGGVTFTWV
 EKDISGKTQIQSVEPYTKQQLNMSFAEIMGYKIMDATNILVSPVLYLPDIPKEEAF
 GKYCRPESQEHPADPGSAAPYLKTKFICVPTTCSNTIDLPMSPRTLDSLMLQFGNN
 GEGAEPSAGGQFESLTFDMELTSECATSPM

Purity Greater than 90% as determined by SDS-PAGE.

Stability The shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Full Length Full L.

GENE INFORMATION

Gene Name [STAT3 signal transducer and activator of transcription 3 \(acute-phase response factor\) \[Homo sapiens \]](#)

Official Symbol [STAT3](#)

Synonyms STAT3; signal transducer and activator of transcription 3 (acute-phase response factor); signal transducer and activator of transcription 3; APRF; DNA-binding protein APRF; acute-phase response factor; HIES; FLJ20882; MGC16063

Gene ID [6774](#)

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|----------------|-----------|
| mRNA Refseq | NM_003150 |
| Protein Refseq | NP_003141 |
| MIM | 102582 |
| UniProt ID | P40763 |

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