

Recombinant Human STAT3 protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Human STAT3 protein (full Length, 1-770aa) was expressed in Yeast with N-terminal 6xHis tag.
Species	Human
Source	Yeast
Protein Length	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 S.aureus lung infection by regulating the expression of the antimicrobial lectin REG3G.
Form	Tris-based buffer, 50% glycerol.
Molecular Mass	90kDa
AA Sequence	MAQWNQLQQLDTRYLEQLHQLYSDSFPMELRQFLAPWIESQDWAYAASKESHATL VFHNLLGEIDQQYSRFLQESNVLYQHNLRRIKQFLQSRYLEKPMIARIVARCLWEES RLLQTAATAAQGGQANHPTAAVVTEKQQMLEQHLQDVRKRVQDLEQKMKVVENL

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QDDDFDNFKTLKSQGDMQDLNGNNQSVTRQKMQQLEQMLTALDQMRRSIVSELA
 GLLSAMEYVQKTLTDEELADWKRRQQIACIGGPPNICLDRLENWITSLAESQLQTRQ
 QIKKLEELQQKVSYGDPVQHRPMLERIVELFRNLMKSAFVVERQPCMPMHPDR
 PLVIKTGVQFTTKVRLLVKFPELNYQLKIKVCIDKDSGDVAALRGSRKFNILGTNTKVM
 NMEESNNGSLSAEFKHLTLREQRCGNGGRANCDASLIVTEELHLITFETEVYHQGLK
 IDLETHSLPVVISNICQMPNAWASILWYNMLTNNPKNVNFFTKPPIGTWDQVAEVL
 WQFSSTTKRGLSIEQLTTAEKLLGPGVNYSGCQITWAKFCKENMAGKGFSEFWWL
 DNIIDLKYYILALWNEGYIMGFISKERERAILSTKPPGTFLRFSESSKEGGVTFTWV
 EKDISGKTQIQSVEPYTKQQLNNMSFAEIIMGYKIMDATNILVSPLVLYPDIPKEEAF
 GKYCRPESQEHPEADPGSAAPYLKTKFICVTPPTCSNTIDLPMSPRTLDSLMMQFGNN
 GEGAEPSSAGGQFESLTFDMELTSECATSPM

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; APRE; DNA-binding protein APRE; 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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