

Recombinant Human STAT3 Protein, His-tagged

Cat. No. STAT3-07H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human STAT3 protein (1-770aa), fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
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Species	Human
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Source	Insect Cells
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ProteinLength	1-770 a.a.
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Description	The protein encoded by this gene is a member of the STAT protein family. 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 through phosphorylation in response to various cytokines and growth factors including IFNs, EGF, IL5, IL6, HGF, LIF and BMP2. This protein mediates the expression of a variety of genes in response to cell stimuli, and thus plays a key role in many cellular processes such as cell growth and apoptosis. The small GTPase Rac1 has been shown to bind and regulate the activity of this protein. PIAS3 protein is a specific inhibitor of this protein. This gene also plays a role in regulating host response to viral and bacterial infections. Mutations in this gene are associated with infantile-onset multisystem autoimmune disease and hyper-immunoglobulin E syndrome.
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 45-1 Ramsey Road, Shirley, NY 11967, USA

Form	Liquid
Molecular Mass	88.8 kDa
Identity	776aa
AA Sequence	MAQWNQLQQLDTRYLEQLHQLYSDSFPMELRQFLAPWIESQDWAYAASKESHATL VFHNLLGEIDQQYSRFLQESNVLYQHNLRRKQFLQSRYLEKPMIARIVARCLWEES RLLQTAATAAQGGQANHPTAAVVTEKQQMLEQLQDVRKRVQDLEQKMKVVENL QDDFDNFYKTLKSQGDMQDLNGNNQSVTRQKMQQLEQMLTALDQMRRSIVSELA GLLSAMEYVQKTLTDEELADWKRRQQIACIGGPPNICLDRLLENWITSLAESQLQTRQ QIKKLEELQQKVS YKGDPIVQHRPMLEERIVELFRNLMKSAFVVERQPCMPMHPDR PLVIKTGVQFTTKVRLLVKFPELNYQLKIKVCIDKDSGDVAALRGSRKFNILGTNTKVM NMEESNNGSLSAEFKHLTLREQRCGNGGRANCDASLIVTEELHLITFETEVYHQGLK IDLETHSLPVVISNICQMPNAWASILWYNMLTNNPKNVNFFTKPPIGTWDQVAEVLS WQFSSTTKRGLSIEQLTTLAEKLLGPGVNYSGCQITWAKFCKENMAGKGFSEFWVWL DNIIDL VKKYILALWNEGYIMGFISKERERAILSTKPPGTFLLRFSSESSKEGGVTFTWV EKDISGKTQIQSVEPYTKQQLNNMSFAEIIMGYKIMDATNILVSPLVLYPDIPKEEAF GKYCRPESQEHPADPGSAAPYLKTKFCVTPPTCSNTIDLPMSPRTLDSLMMQFGNN GEGAEPSAGGQFESLTFDMELTSECATSPM
Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 90% by SDS-PAGE
Applications	SDS-PAGE
Storage	Can be stored at 2 to 8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.

Concentration	0.25 mg/mL (determined by absorbance at 280nm)
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Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 30% glycerol, 1mM DTT
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GENE INFORMATION

Gene Name	STAT3 signal transducer and activator of transcription 3 [Homo sapiens (human)]
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Official Symbol	STAT3
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Synonyms	STAT3; signal transducer and activator of transcription 3; APRF; HIES; ADMIO; ADMIO1; signal transducer and activator of transcription 3; DNA-binding protein APRF; acute-phase response factor
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Gene ID	6774
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mRNA Refseq	NM_139276
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Protein Refseq	NP_644805
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MIM	102582
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UniProt ID	P40763
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