

# Recombinant Full Length Human signal transducer and activator of transcription 3 Protein, His tagged

Cat. No. STAT3-10HFL Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human STAT3 protein (Full Length), fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
<b>Species</b>	Human
<b>Source</b>	Insect cells
<b>ProteinLength</b>	1-770aa
<b>Description</b>	<p>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.</p>

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<b>Tag</b>	C-His
<b>Form</b>	Liquid
<b>Molecular Mass</b>	88.8 kDa
<b>AA Sequence</b>	<p>MAQWNQLQQLDTRYLEQLHQLYSDSFPMELRQFLAPWIESQDWAYAASKESHATL  VFHLLGEIDQQYSRFLQESNVLYQHNLRRKQFLQSRYLEKPMIARIVARCLWEES  RLLQTAATAAQGGQANHPTAAVVTEKQQMLEQLQDVRKRVDLEQKMKVVENL  QDDDFDNFKTLKSQGDMQDLNGNNQSVTRQKMQQLEQMLTALDQMRRSIVSELA  GLLSAMEYVQKTLTDEELADWKRRQQIACIGGPPNICLDRLLENWITSLAESQLQTRQ  QIKKLEELQQKVSYKGDPIVQHRPMLERIVELFRNLMKSAFVVERQPCMPMHPDR  PLVIKTGVQFTTKVRLLVKFPENYQLKIKVCIDKDSGDVAALRGSRKFNILGTNTKVM  NMEESNNGSLSAEFKHLTLREQRCGNGGRANCDASLIVTEELHLITFETEVYHQGLK  IDLETHSLPVVISNICQMPNAWASILWYNMLTNNPKNVNFFTKPPIGTWDQVAEVL  WQFSSTTKRGLSIEQLTTLAEKLLGPGVNYSGCQITWAKFCKENMAGKGFVWVWL  DNIIDLKYYILALWNEGYIMGFISKERERAILSTKPPGTFLLRFSSESSKEGGVTFTWV  EKDISGKTQIQSVEPYTKQQLNMSFAEIMGYKIMDATNILVSPLVLYPDIPKEEAF  GKYCRPESQEHPADPGSAAPYLKTKFICVPTTCSNTIDLPMSPRTLDSLMOFGNN  GEGAEPSAGGQFESLTFDMELTSECATSPM</p>
<b>Endotoxin</b>	< 1 EU/μg, determined by LAL method.
<b>Purity</b>	> 90% by SDS-PAGE
<b>Applications</b>	SDS-PAGE
<b>Storage</b>	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.

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**Concentration** 0.25 mg/mL (determined by absorbance at 280nm)

**Storage Buffer** Phosphate-Buffered Saline (pH 7.4) containing 30% glycerol, 1mM DTT

## GENE INFORMATION

**Gene Name** STAT3 signal transducer and activator of transcription 3 [ Homo sapiens (human) ]

**Official Symbol** STAT3

**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

**Gene ID** 6774

**mRNA Refseq** NM\_139276

**Protein Refseq** NP\_644805

**MIM** 102582

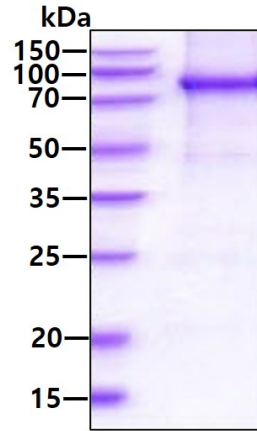
**UniProt ID** P40763

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**SDS-PAGE**



3  $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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