

## Recombinant Human STAT3

Cat. No. STAT3-2172H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human STAT3 protein was expressed in an E. coli strain that carries the full-length coding sequence for human STAT3 under the control of a T7 promoter.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	STAT3 (signal transducer and activator of transcription 3) is a member of the STAT family of transcription factors. STATs undergo tyrosine phosphorylation in response to growth factor or cytokine signaling. This phosphorylation results in dimerization and translocation of STAT proteins to the nucleus. The STAT3 protein is expressed in most cell types and is activated by multiple cytokines and growth factors including: IFN $\alpha$ , IL-10, IL-6, IL-11, IL-12, IL-2, EGF, among others.
<b>Form</b>	The protein diluted in 20 mM Tris-Cl (pH 8), 20% glycerol, 100 mM KCl, 1 mM DTT and 0.2 mM EDTA.
<b>Applications</b>	Recombinant STAT3 protein can be used for in vitro transcription, gel mobility shift assays, Western blot (80 kDa) and for protein-protein interactions assays.
<b>Usage</b>	This product is for research use only and is not for use in diagnostic procedures.
<b>Stability</b>	This product is guaranteed for 6 months from date of receipt.

### GENE INFORMATION

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<b>Gene Name</b>	STAT3 signal transducer and activator of transcription 3 (acute-phase response factor) [ Homo sapiens ]
<b>Official Symbol</b>	STAT3
<b>Synonyms</b>	APRF; HIES; ADMIO; signal transducer and activator of transcription 3; DNA-binding protein APRF; acute-phase response factor
<b>Gene ID</b>	6774
<b>mRNA Refseq</b>	NM_213662
<b>Protein Refseq</b>	NP_998827
<b>MIM</b>	102582
<b>UniProt ID</b>	P40763
<b>Chromosome Location</b>	17q21.31
<b>Pathway</b>	AGE/RAGE pathway, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem; Cellular responses to stress, organism-specific biosystem
<b>Function</b>	CCR5 chemokine receptor binding; DNA binding; protein binding

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