

## Recombinant Human STAT3 Protein, DYKDDDDK-tagged

Cat. No. STAT3-153H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human signal transducer and activator of transcription 3(STAT3) protein, transcript variant 3(NM\_213662), with a DYKDDDDK tag, was expressed in human cells.

**Species** Human

**Source** Human Cells

**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. Mutations in this gene are associated with infantile-onset multisystem autoimmune disease and hyper-immunoglobulin E syndrome. Alternative splicing results in multiple transcript variants encoding distinct isoforms.

**Form** Purified protein formulated in a sterile solution of TBS buffer, pH7.43, without any preservatives.

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<b>Molecular Mass</b>	82.9 kDa
<b>Endotoxin</b>	Endotoxin level is < 0.1 ng/g of protein (<1EU /g)
<b>Purity</b>	>90% by SDS-PAGE gel and Coomassie Blue staining
<b>Applications</b>	Antigens, Western, ELISA and other in vitro binding or in vivo functional assays, and protein-protein interaction studies.

## GENE INFORMATION

<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>	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;
<b>Gene ID</b>	6774
<b>mRNA Refseq</b>	NM_003150
<b>Protein Refseq</b>	NP_003141
<b>MIM</b>	102582
<b>UniProt ID</b>	P40763

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