

## Recombinant Human STAT3, MYC/DDK-tagged

Cat. No. STAT3-2174H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human STAT3, transcript variant 3, fused with C-terminal MYC/DDK tag, was expressed in HEK293 cells.

**Species** Human

**Source** HEK293

**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. Three alternatively spliced transcript variants encoding distinct isoforms have been described.

**Form** 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

**Molecular Mass** 82.9 kDa

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

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**Usage** This product is for research and development use only. Not for use in human.

**Concentration** >50 ug/mL as determined by microplate BCA method

## GENE INFORMATION

**Gene Name** STAT3 signal transducer and activator of transcription 3 (acute-phase response factor) [ Homo sapiens ]

**Official Symbol** STAT3

**Synonyms** APRF; HIES; ADMIO; signal transducer and activator of transcription 3; DNA-binding protein APRF; acute-phase response factor

**Gene ID** [6774](#)

**mRNA Refseq** [NM\\_213662](#)

**Protein Refseq** [NP\\_998827](#)

**MIM** [102582](#)

**UniProt ID** P40763

**Chromosome Location** 17q21.31

**Pathway** AGE/RAGE pathway, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem; Cellular responses to stress, organism-specific biosystem

**Function** CCR5 chemokine receptor binding; DNA binding; protein binding

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