

## Active Recombinant Full Length Human STAT3, His-tagged

Cat. No. STAT3-29823TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human STAT3 with His tag, Predicted MWt 89 kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<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. Three alternatively spliced transcript variants encoding distinct isoforms have been described.</p>
<b>Conjugation</b>	HIS
<b>Tissue specificity</b>	Heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.
<b>Biological activity</b>	1 unit equals 1 nanogram of purified protein.
<b>Form</b>	Liquid

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<b>Purity</b>	>95% by SDS-PAGE
<b>Storage buffer</b>	Preservative: None Constituents: 20% Glycerol, 20mM Tris HCl, 100mM Potassium chloride, 1mM DTT, 0.2mM EDTA, pH 7.9
<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
<b>Sequence Similarities</b>	Belongs to the transcription factor STAT family. Contains 1 SH2 domain.
<b>Full Length</b>	Full L.

## 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;
<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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<b>Chromosome Location</b>	17q21
<b>Pathway</b>	Acute myeloid leukemia, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem; Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem; Adipogenesis, organism-specific biosystem;
<b>Function</b>	CCR5 chemokine receptor binding; DNA binding; calcium ion binding; glucocorticoid receptor binding; ligand-regulated transcription factor activity;

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