Recombinant Human STAT3, MYC/DDK-tagged

Cat. No. STAT3-2175H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human STAT3, transcript variant 1, 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	87.9 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_139276
Protein Refseq	NP_644805
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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