Recombinant Human STAT3

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	E.coli
Description	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: IFNα, IL-10, IL-6, IL-11, IL-12, IL-2, EGF, among others.
Form	The protein diluted in 20 mM Tris-Cl (pH 8), 20% glycerol, 100 mM KCl, 1 mM DTT and 0.2 mM EDTA.
Applications	Recombinant STAT3 protein can be used for in vitro transcription, gel mobility shift assays, Western blot (80 kDa) and for protein-protein interactions assays.
Usage	This product is for research use only and is not for use in diagnostic procedures.
Stability	This product is guaranteed for 6 months from date of receipt.

GENE INFORMATION

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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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