

Recombinant Human STAT4

Cat. No. STAT4-30118TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human STAT4 protein expressed in a baculovirus system, Predicted MWt 86 kDa.
Species	Human
Description	The protein encoded by this gene is a member of the STAT family of transcription factors. 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 essential for mediating responses to IL12 in lymphocytes, and regulating the differentiation of T helper cells. Mutations in this gene may be associated with systemic lupus erythematosus and rheumatoid arthritis. Alternate splicing results in multiple transcript variants that encode the same protein.
Form	Liquid
Storage buffer	Preservative: None Constituents: 20% Glycerol, 20mM Tris HCl, 100mM Potassium chloride, 1mM DTT, 0.2mM EDTA, pH 8.0
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the transcription factor STAT family. Contains 1 SH2 domain.

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Full Length	Full L.
GENE INFORMATION	
Gene Name	STAT4 signal transducer and activator of transcription 4 [Homo sapiens]
Official Symbol	STAT4
Synonyms	STAT4; signal transducer and activator of transcription 4;
Gene ID	6775
mRNA Refseq	NM_001243835
Protein Refseq	NP_001230764
MIM	600558
Uniprot ID	Q14765
Chromosome Location	2q32.2-q32.3
Pathway	Downstream signaling in naive CD8+ T cells, organism-specific biosystem; IL12 signaling mediated by STAT4, organism-specific biosystem; IL12-mediated signaling events, organism-specific biosystem; IL23-mediated signaling events, organism-specific biosystem; IL27-mediated signaling events, organism-specific biosystem;
Function	calcium ion binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; signal transducer activity;

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