

# Recombinant Human STAT4, His-tagged

**Cat. No.** STAT4-30117TH    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant full length Human STAT4 with N terminal His tag, expressed in a Baculovirus infected Sf9 cell expression system, amino acids 1-748, MW 87kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>ProteinLength</b>    | 1-748 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | 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. |
| <b>Conjugation</b>      | HIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Storage buffer</b>   | Preservative: 150mM Imidazole<br>Constituents: 25% Glycerol, 0.1% PMSF, 50mM Sodium phosphate, 300mM Sodium chloride, 0.2mM DTT, pH 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage</b>          | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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|                              |                                                                                                                                                                                                                                                                                                                                |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Sequence Similarities</b> | Belongs to the transcription factor STAT family.Contains 1 SH2 domain.                                                                                                                                                                                                                                                         |
| <b>Full Length</b>           | Full L.                                                                                                                                                                                                                                                                                                                        |
| <b>GENE INFORMATION</b>      |                                                                                                                                                                                                                                                                                                                                |
| <b>Gene Name</b>             | STAT4 signal transducer and activator of transcription 4 [ Homo sapiens ]                                                                                                                                                                                                                                                      |
| <b>Official Symbol</b>       | STAT4                                                                                                                                                                                                                                                                                                                          |
| <b>Synonyms</b>              | STAT4; signal transducer and activator of transcription 4;                                                                                                                                                                                                                                                                     |
| <b>Gene ID</b>               | 6775                                                                                                                                                                                                                                                                                                                           |
| <b>mRNA Refseq</b>           | NM_001243835                                                                                                                                                                                                                                                                                                                   |
| <b>Protein Refseq</b>        | NP_001230764                                                                                                                                                                                                                                                                                                                   |
| <b>MIM</b>                   | 600558                                                                                                                                                                                                                                                                                                                         |
| <b>Uniprot ID</b>            | Q14765                                                                                                                                                                                                                                                                                                                         |
| <b>Chromosome Location</b>   | 2q32.2-q32.3                                                                                                                                                                                                                                                                                                                   |
| <b>Pathway</b>               | 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; |
| <b>Function</b>              | calcium ion binding; sequence-specific DNA binding; sequence-specific DNA binding                                                                                                                                                                                                                                              |

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transcription factor activity; signal transducer activity;

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