

# Recombinant Human Signal Transducer And Activator Of Transcription 6, GST-tagged

**Cat. No.** STAT6-4889H    **Lot. No.** (See product label)

## SPECIFICATION

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>  | Full-length recombinant human STAT6 was expressed in Sf9 insect cells using an N-terminal GST tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>           | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>            | Sf9 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>       | <p>The STAT6 protein is a member of the STAT family of transcription factors that are activated by cytokines and phosphorylated by the receptor associated kinases. STATs form homo- or hetero-dimers that translocate to the cell nucleus where they act as transcription activators. STAT6 plays a central role in exerting IL4 mediated biological responses. STAT6 induces the expression of BCL2L1/BCL-XL, which is responsible for the anti-apoptotic activity of IL4. STAT6 mRNA has been detected in various tissues including peripheral blood lymphocytes, colon, intestine, ovary, prostate, thymus, spleen, kidney, liver, lung and placenta. STAT6 is critically involved in Th2 immune response.</p> |
| <b>Applications</b>      | Kinase Assay; Western Blot                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Molecular Weight</b>  | 138 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Expression System</b> | Sf9 insect cells using baculovirus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Form</b>              | Recombinant protein stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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|                      |                                                                                                                                                                                                                                         |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | mM imidazole, 0.1 mM PMSF, 0.25 mM DTT, 25% glycerol.                                                                                                                                                                                   |
| <b>Purity</b>        | > 80 %                                                                                                                                                                                                                                  |
| <b>Concentration</b> | 0.2 ug/ul                                                                                                                                                                                                                               |
| <b>Sequences</b>     | Full-length                                                                                                                                                                                                                             |
| <b>Storage</b>       | Store product at -70oC. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. |

## GENE INFORMATION

|                        |                                                                                                                                                            |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | STAT6 signal transducer and activator of transcription 6, interleukin-4 induced [ Homo sapiens ]                                                           |
| <b>Official Symbol</b> | STAT6                                                                                                                                                      |
| <b>Synonyms</b>        | STAT6; signal transducer and activator of transcription 6; STAT6B; STAT6C; D12S1644; IL-4-STAT; STAT, interleukin4-induced; transcription factor IL-4 STAT |
| <b>Gene ID</b>         | 6778                                                                                                                                                       |
| <b>mRNA Refseq</b>     | NM_001178078                                                                                                                                               |
| <b>Protein Refseq</b>  | NP_001171549                                                                                                                                               |
| <b>MIM</b>             | 601512                                                                                                                                                     |
| <b>UniProt ID</b>      | P42226                                                                                                                                                     |

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**Chromosome****Location**

12q13

**Function**DNA binding; calcium ion binding; protein binding; sequence-specific DNA binding  
transcription factor activity; signal transducer activity Tel: 1-631-559-9269 1-516-512-3133 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA