

Recombinant Human Janus Kinase 3, GST-tagged, Active

Cat. No. JAK3-337H Lot. No. (See product label)

SPECIFICATION

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| Product Overview | Recombinant human JAK3 (781-end) was expressed by baculovirus in <i>Sf9 insect cell</i> using an N-terminal GST tag. MW = 64 kDa. |
| Species | Human |
| Source | Sf9 Cells |
| Protein Length | 781-end a.a. |
| Description | JAK3 is a member of the JAK family of tyrosine kinases involved in cytokine receptor-mediated intracellular signal transduction. Low levels of JAK3 expression is detected in immature hematopoietic cells, which dramatically increases during terminal differentiation of these cells suggesting a role of JAK3 in the differentiation of hematopoietic cells. Mutations in JAK3 are associated with autosomal SCID (severe combined immunodeficiency disease). Mice lacking JAK3 show a severe block in B-cell development at the pre-B stage in bone marrow suggesting that JAK3 is critical for the progression of B-cell development in the bone marrow. |
| Sequence | 781-end. |
| Applications | Kinase Assay, Western Blot. |
| Storage And Stability | Store product at -70°C. 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. |

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GENE INFORMATION

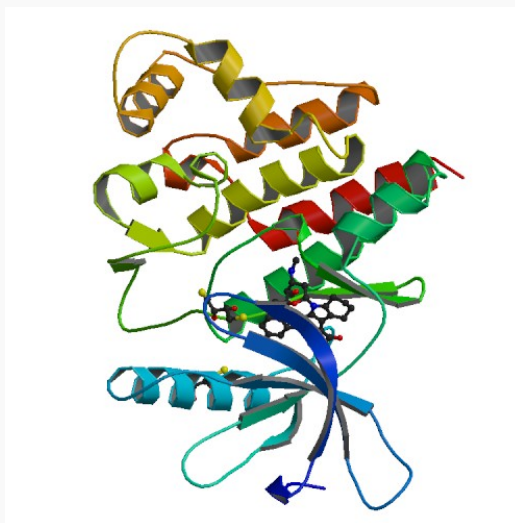
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|----------------------------|--|
| Gene Name | JAK3 Janus kinase 3 [Homo sapiens] |
| Synonyms | JAK3; Janus kinase 3; JAKL; LJAK; JAK-3; L-JAK; JAK3_HUMAN; leukocyte Janus kinase; tyrosine-protein kinase JAK3; Janus kinase 3 (a protein tyrosine kinase, leukocyte); EC 2.7.10.2 |
| Gene ID | 3718 |
| mRNA Refseq | NM_000215 |
| Protein Refseq | NP_000206 |
| MIM | 600173 |
| UniProt ID | P52333 |
| Chromosome Location | 19p13.1 |
| Pathway | Chemokine signaling pathway; Jak-STAT signaling pathway; Primary immunodeficiency |
| Function | ATP binding; Janus kinase activity; non-membrane spanning protein tyrosine kinase activity; nucleotide binding; protein binding; transferase activity |

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