

Recombinant Human Janus Kinase 3, GST-tagged, Active

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

SPECIFICATION

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

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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