

Recombinant Human Janus Kinase 3, GST-tagged

Cat. No. JAK3-1887H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human JAK3 catalytic domain (amino acids 781-1124), GST-tagged. No special measures were taken to activate this kinase.
Species	Human
Source	Insect Cells
Protein Length	781-1124 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.
Form	Liquid in 50 mM Tris, pH 7.5 + 150 mM NaCl + 0.5 mM EDTA + 0.02% Triton X-100 + 2 mM DTT + 50% glycerol.
Molecular Weight	67.4 kDa
Storage	Stable for 6 months in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.

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OfficialSymbol JAK3

GENE INFORMATION

Gene Name JAK3 Janus kinase 3 [Homosapiens]

Synonyms JAK3; Janus kinase 3; JAKL;LJAK; JAK-3; L-JAK; JAK3_HUMAN; leukocyte Janus kinase; tyrosine-proteinkinase JAK3; Janus kinase 3 (a protein tyrosine kinase, leukocyte); EC2.7.10.2

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; HTLV-Iinfection; IL-2 Signaling Pathway; IL-4 signaling Pathway; IL-7 SignalingPathway; IL-9 Signaling Pathway; IL2 signaling events mediated by PI3K; IL4-mediatedsignaling events; Immune System; Interleukin receptor SHC signaling

Function ATP binding; Janus kinaseactivity; non-membrane spanning protein tyrosine kinase activity; nucleotidebinding; protein binding; transferase activity

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