Recombinant Human Janus Kinase 3, GST-tagged

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

SPECIFICATION

Product Overview	Recombinant humanJAK3 catalytic domain (amino acids 781-1124), GST-tagged. No special measureswere taken to activate this kinase.
Species	Human
Source	Insect Cells
ProteinLength	781-1124 a.a.
Description	JAK3 is a member of the JAKfamily of tyrosine kinases involved in cytokine receptor-mediatedintracellular signal transduction. Low levels of JAK3 expression is detectedin immature hematopoietic cells, which dramatically increases during terminaldifferentiation of these cells suggesting a role of JAK3 in thedifferentiation of hematopoietic cells. Mutations in JAK3 are associated withautosomal SCID (severe combined immunodeficiency disease. Mice lacking JAK3show a severe block in B-cell development at the pre-B stage in bone marrowsuggesting that JAK3 is critical for the progression of B-cell development inthe bone marrow.
Form	Liquid in 50 mMTris, 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	Stablefor 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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PDBrendering based on 1b2y.

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