

Recombinant Human Janus Kinase 3, GST-His

Cat. No. JAK3-2657H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human JAK3 was fused at the N-terminus to a GST-His6-thrombin cleavage site sequence and expressed in <i>S.frugiperda</i> insect cells using a baculovirus expression system. MW = 68379 Da.
Species	Human
Source	<i>S.frugiperda</i>
Description	JAK3 is a member of the Janus family of tyrosine kinases and plays an important role in signal transduction and interacts with members of the STAT (signal transduction and activators of transcription) family.
Form	Liquid. In 100 mM NaCl, 50 mM Tris-HCl, 5 mM DTT, 4 mM reduced glutathione, 20% glycerol.
Specific Activity	≥6.0 U/mg protein.
Unit Definition	One unit is defined as the amount of enzyme required to transfer 1 nmol phosphate to R11-TRK-C-derived peptide (R11-VYSTDYRLFNPS) per min at 30°C using variable concentrations of ATP (0.1-1.11 μM).
Storage	≤ -70°C. Avoid freeze/thaw.

GENE INFORMATION

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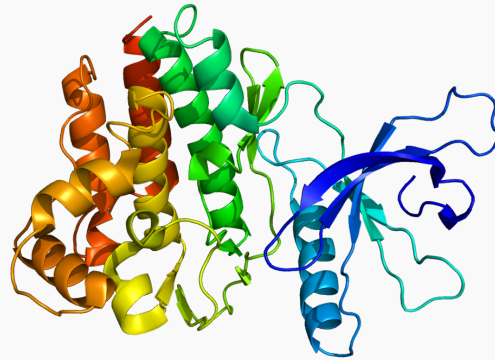
Gene Name	JAK3 Janus kinase 3 [Homo sapiens]
Synonyms	JAK3; Janus kinase 3; JAKL; LJAK; JAK-3; L-JAK; JAK3_HUMAN; leukocyte Janus kinase; tyrosine-protein kinase JAK3; Janus kinase 3 (a protein tyrosine kinase, leukocyte); EC 2.7.10.2
Gene ID	3718
mRNA Refseq	NM_000215
Protein Refseq	NP_000206
MIM	600173
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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