

Recombinant Human JAK3 Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. JAK3-006H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	JAK3 MS Standard C13 and N15-labeled recombinant protein (NP_000206) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene is a member of the Janus kinase (JAK) family of tyrosine kinases involved in cytokine receptor-mediated intracellular signal transduction. It is predominantly expressed in immune cells and transduces a signal in response to its activation via tyrosine phosphorylation by interleukin receptors. Mutations in this gene are associated with autosomal SCID (severe combined immunodeficiency disease).
Molecular Mass	124.9 kDa
AA Sequence	MAPPSEETPLIPQRSCSLLSTEAGALHVLLPARGPGPPQRLSFSFGDHLAEDLCVQA AKASGILPVYHSLFALATEDLSCWFPPSHIFSVEDASTQVLLYRIRFYFPNWFGLK HRFGLRKDLASAILDLPVLEHLFAQHRSDLVSGRLPVGLSLKEQGECLSLAVLDLAR MAREQAQRPGELLKTVSYKACLPPSLRDLIQGLSFVTRRRIRRTVRRALRRVAACQA DRHSLMAKYIMDLERLDPAGAAETFHVGLPGALGGHDGLGLLRVAGDGGIAWTQG EQEVLQPFCDPFPEIVDISIKQAPRVGPAGEHRLVTVTRTDNQILEAEFPGLPEALSFV ALVDGYFRLTTDSQHFFCKEVAPPRLLEEVAEQCHGPITLDFAINKLKTGGSRPGSY

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

VLRRSPQDFDSFLLTVCVQNPLGPDYKGCILRRSPTGTFLLVGLSRPHSSLRELLAT
 CWDGGLHVDGVAVTLTSCCIPRPKEKSNLIVVQRGHSPPTSSLVQPQSQYQLSQMT
 FHKIPADSLEWHENLGHGSFTKIYRGCHEVVDGEARKTEVLLKVMDAKHKNCMES
 FLEAASLMSQVSYRHLVLLHGVCMAGDSTMVQEFVHLGAIDMYLRKRGHLPASW
 KLQVVKQLAYALNYLEDKGLPHGNVSARKVLLAREGADGSPFFIKLSDPGVSPAVLS
 LEMLTDRIPWVAPECLREAQTLSEADKWGFGATVWEVFSGVTMPISALDPAKKLQ
 FYEDRQQLPAPKWTEALLIQQCMAYEPVQRPSFRAVIRDLNSLISSDYELLSDPTP
 GALAPRDGLWNGAQLYACQDPTIFEERHLKYISQLGKGNFGSVELCRYDPLGDNTG
 ALVAVKQLQHSGPDQQRDFQREIQILKALHSDFIVKYRGVSYGPGRQSLRLVMEYLP
 SGCLRDFLQRHRARLDASRLLLYSSQICKGMEYLGSRRCVHRDLAARNILVESEAHV
 KIADFGGLAKLLPLDKDYVVREPGQSPIFWYAPESLSDNIFSRQSDVWSFGVVLYELF
 TYCDKSCSPSAEFLRMMGCERDVPALCRLELLEEGQRLPAPPACPAEVHELMKLC
 WAPSPQDRPSFSALGPQLDMLWSGSRGCETHAFTAHPGKHHSLSFSTRTRPLEQ
 KLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name JAK3 Janus kinase 3 [Homo sapiens (human)]

Official Symbol JAK3

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Synonyms JAK3; Janus kinase 3; JAK-3; JAK3_HUMAN; JAKL; L-JAK; LJAK; tyrosine-protein kinase JAK3; Janus kinase 3 (a protein tyrosine kinase, leukocyte); leukocyte Janus kinase; EC 2.7.10.2

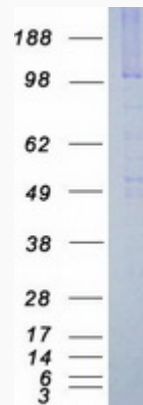
Gene ID 3718

mRNA Refseq NM_000215

Protein Refseq NP_000206

MIM 600173

UniProt ID P52333

SDS-PAGE

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