Recombinant Full Length Human JAK1 Protein, C-Flag-tagged

Cat. No. JAK1-151HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human JAK1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes a membrane protein that is a member of a class of protein-tyrosine kinases (PTK) characterized by the presence of a second phosphotransferase-related domain immediately N-terminal to the PTK domain. The encoded kinase phosphorylates STAT proteins (signal transducers and activators of transcription) and plays a key role in interferon-alpha/beta, interferon-gamma, and cytokine signal transduction. This gene plays a crucial role in effecting the expression of genes that mediate inflammation, epithelial remodeling, and metastatic cancer progression. This gene is a key component of the interleukin-6 (IL-6)/JAK1/STAT3 immune and inflammation response and is a therapeutic target for alleviating cytokine storms. The kinase activity of this gene is directly inhibited by the suppressor of cytokine signalling 1 (SOCS1) protein. Alternative splicing results in multiple transcript variants.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	133.1 kDa
AA Sequence	MQYLNIKEDCNAMAFCAKMRSSKKTEVNLEAPEPGVEVIFYLSDREPLRLGSGEYTA

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	EELCIRAAQACRI SPLCHNLFALYDENTKLWYAPNRTITVDDKMSLRLHYRMRFYFT NWHGTNDNEQSVWRHSPKKQKNGYEK KKIPDATPLLDASSLEYLFAQGQYDLVKC LAPIRDPKTEQDGHDIENECLGMAVLAISHYAMMKKMQLPE LPKDISYKRYIPETLNK SIRQRNLLTRMRINNVFKDFLKEFNNKTICDSSVSTHDLKVKYLATLETLTKH YGAEIF ETSMLLISSENEMNWFHSNDGGNVLYYEVMVTGNLGIQWRHKPNVVSVEKEKNKL KRKKLENKH KKDEEKNKIREEWNNFSYFPEITHIVIKESVVSINKQDNKKMELKLSSH EEALSFVSLVDGYFRLTADAH HYLCTDVAPPLIVHNIQNGCHGPICTEYAINKLRQEG SEEGMYVLRWSCTDFDNILMTVTCFEKSEQVQG AQKQFKNFQIEVQKGRYSLHGS DRSFPSLGDLMSHLKKQILRTDNISFMLKRCCQPKPREISNLLVATKK AQEWQPVYP MSQLSFDRILKKDLVQGEHLGRGTRTHIYSGTLMDYKDDEGTSEEKKIKVILKVLDPS HRD ISLAFFEAASMMRQVSHKHIVYLYGVCVRDVENIMVEEFVEGGPLDLFMHRKS DVLTTPWKFKVAKQLAS ALSYLEDKDLVHGNVCTKNLLLAREGIDSECGPFIKLSDP GIPITVLSRQECIERIPWIAPECVEDSKNL SVAADKWSFGTTLWEICYNGEIPLKDKTL IEKERFYESRCRPVTPSCKELADLMTRCMNYDPNQRPFFRA IMRDINKLEEQNPDIV SEKKPATEVDPTHFEKRFLKRIRDLGEGHFGKVELCRYDPEGDNTGEQVAVKSL KP ESGGNHIADLKKEIEILRNLYHENIVKYKGICTEDGGNGIKLIMEFLPSGSLKEYLPKNK NKINLKQQ LKYAVQICKGMDYLGSRQYVHRDLAARNVLVESEHQVKIGDFGLTKAIE TDKEYYTVKDDRDSPVFWYAP ECLMQSKFYIASDVWSFGVTLHELLTYCDSDSSP MALFLKMIGPTHGQMTVTRLVNTLKEGKRLPCPPNC PDEVYQLMRKCWEFQPSNRTSFQNLIEGFEALLKTRTRPLEQKLISEEDLAANDILDY KDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.

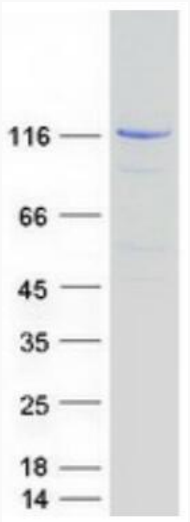
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Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Protein Kinase
Protein Pathways	Jak-STAT signaling pathway, Pancreatic cancer, Pathways in cancer
Full Length	Full L.

GENE INFORMATION

Gene Name	JAK1 Janus kinase 1 [Homo sapiens (human)]
Official Symbol	JAK1
Synonyms	JTK3; AIIDE; JAK1A; JAK1B
Gene ID	3716
mRNA Refseq	NM_002227.4
Protein Refseq	NP_002218.2
MIM	147795
UniProt ID	P23458

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Coomassie blue staining of purified JAK1 protein.

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