

Recombinant human Jak2, His-tagged

Cat. No. JAK2-2487H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Jak2 protein, fused to His-tag at N-terminus, was expressed in E.coli
Species	Human
Source	E.coli
Description	JAK2 is a protein tyrosine kinase involved in a specific subset of cytokine receptor signaling pathways. It has been found to be constitutively associated with the prolactin receptor and is required for responses to gamma interferon. Mice that do not express an active protein for this gene exhibit embryonic lethality associated with the absence of definitive erythropoiesis.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M Urea
Molecular Mass	18.1kDa (157aa)
AA Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHMGE SPIFWYAPES LTESKFSVAS DVWSFGVVLY ELFTYIEKSK SPPAEFMRMIGNDKQGQMIV FHLIELLKNN GRLPRPDGCP DEIYMIMTEC WNNNVNQRPS FRDLALRVDQ IRDNMAG
Purity	>95 % by SDS - PAGE
Applications	SDS-PAGE

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Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	1.0 mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	JAK2 Janus kinase 2 [Homo sapiens]
Official Symbol	JAK2
Synonyms	JAK2; Janus kinase 2; tyrosine-protein kinase JAK2; JTK10; JAK-2; Janus kinase 2 (a protein tyrosine kinase); THCYT3;
Gene ID	3717
mRNA Refseq	NM_004972
Protein Refseq	NP_004963
MIM	147796
UniProt ID	O60674
Chromosome Location	9p24
Pathway	Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem; CXCR4-mediated signaling events, organism-specific biosystem; Chemokine signaling pathway, organism-specific biosystem; Chemokine signaling pathway, conserved biosystem; Cholinergic

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synapse, organism-specific biosystem; Cytokine Signaling in Immune system, organism-specific biosystem;

Function

ATP binding; SH2 domain binding; growth hormone receptor binding; heme binding; histone binding; histone kinase activity (H3-Y41 specific); interleukin-12 receptor binding; non-membrane spanning protein tyrosine kinase activity; nucleotide binding; protei

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