

Recombinant Human JAK1 protein, His-tagged

Cat. No. JAK1-938H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human JAK1 protein(NP_002218.2)(Ala 561 - Asn 852), fused to a His tag at the N-terminus, was expressed in Insect cells.
Species	Human
Source	Insect cells
ProteinLength	Ala 561 - Asn 852
Description	JAK1 is a human tyrosine kinase protein essential for signaling for certain type I and type II cytokines. It interacts with the common gamma chain (γc) of type I cytokine receptors, to elicit signals from the IL-2 receptor family (e.g. IL-2R, IL-7R, IL-9R and IL-15R), the IL-4 receptor family (e.g. IL-4R and IL-13R), the gp130 receptor family (e.g. IL-6R, IL-11R, LIF-R, OSM-R, cardiotrophin-1 receptor (CT-1R), ciliary neurotrophic factor receptor (CNTF-R), neurotrophin-1 receptor (NNT-1R) and Leptin-R). Jak1 plays a critical role in initiating responses to multiple major cytokine receptor families. Expression of JAK1 in cancer cells enables individual cells to contract, potentially allowing them to escape their tumor and metastasize to other parts of the body.
Predicted N Terminal	Met
Form	Delivered as bulk protein in a 0.2 μ m filtered solution of 50 mM Tris, 500 mM NaCl, 2 mM TCEP, pH8.0 with glycerol as protectant.

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Molecular Mass	The protein has a calculated MW of 35.7 kDa. The protein migrates as 30-33 kDa under reducing (R) condition (SDS-PAGE).
Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	This product is stable after storage at: The product MUST be stored at -70°C or lower upon receipt; -70°C for 3 months under sterile conditions.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

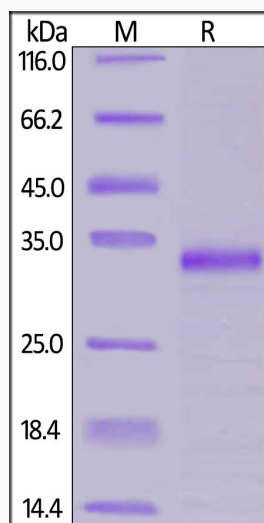
Gene Name	JAK1 Janus kinase 1 [Homo sapiens]
Official Symbol	JAK1
Synonyms	JAK1; Janus kinase 1; JAK1B; JAK1A; JTK3;
Gene ID	3716
mRNA Refseq	NM_002227.2
Protein Refseq	NP_002218.2
MIM	147795
UniProt ID	P23458

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SDS-PAGE



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