

## Active Recombinant Human JAK1 Protein, Flag tagged

Cat. No. JAK1-19H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant JAK1 (866-1154) protein that includes amino acids 866-1154 of human JAK1 protein (accession number NP\_001307852.1) was expressed in a baculovirus expression system, and contains an N-terminal FLAG tag.

**Species** Human

**Source** Insect Cells

**ProteinLength** 866-1154 aa

**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** Supplied in 25 mM HEPESNaOH pH 7.5, 300 mM NaCl, 10% glycerol, 0.04% Triton

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X-100, and 0.5 mM TCEP.

**Molecular Mass** 34.2 kDa

**Purity** > 95%

**Storage** Recombinant proteins in solution are temperature sensitive and must be stored at -80 centigrade to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.

**Concentration** 0.2 µg/µL

## GENE INFORMATION

**Gene Name** [JAK1 Janus kinase 1 \[ Homo sapiens \(human\) \]](#)

**Official Symbol** [JAK1](#)

**Synonyms** [JAK1](#); [Janus kinase 1](#); [JTK3](#); [AIIDE](#); [JAK1A](#); [JAK1B](#); [tyrosine-protein kinase JAK1](#); [EC 2.7.10.2](#)

**Gene ID** [3716](#)

**mRNA Refseq** [NM\\_001320923](#)

**Protein Refseq** [NP\\_001307852](#)

**MIM** [147795](#)

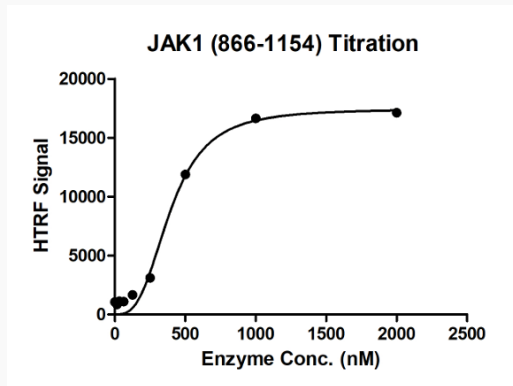
**UniProt ID** [P23458](#)

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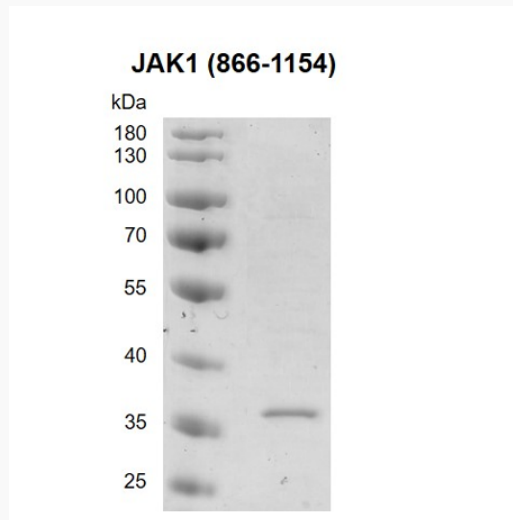
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**Activity**



**SDS-PAGE**



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