Recombinant Human Janus Kinase 1, GST-tagged

Cat. No. JAK1-674H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Janus Kinase 1 with a GST Tag at N-terminal is expressed in*Baculovirus.*MW=62 kDa.
Species	Human
Source	Insect Cells
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). It is also important for transducing a signal by type I (IFN-α/β) and type II (IFN-γ) interferons, and members of the IL-10 family via type II cytokine receptors. Jak1 plays a critical role in initiating responses to multiple major cytokine receptor families. Loss of Jak1 is lethal in neonatal mice, possibly due to difficulties suckling.
Purity	73 %. The purity was assessed by SDS-PAGE/CBB staining.
Buffer	50 mM Tris-HCl, 150 mM NaCl, 0.05% Brij35, 1 mM DTT, 10% glycerol, pH7.5.
Storage And Handling	Store at -80oC.Avoid repeating freeze-thaws.

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GENE INFORMATION

Gene Name	JAK1 Janus kinase 1 [Homo sapiens]
Synonyms	JAK1; Janus kinase 1; JAK-1; Janus kinase 1 (a protein tyrosine kinase); tyrosine-protein kinase JAK1; JAK1A; JAK1B; JTK3; EC 2.7.10.2
Gene ID	3716
mRNA Refseq	NM_002227
Protein Refseq	NP_002218
MIM	147795
UniProt ID	P23458
Chromosome Location	1p32.3-p31.3
Pathway	Jak-STAT signaling pathway; Leishmaniasis; Pancreatic cancer; Pathways in cancer
Function	ATP binding; Janus kinase activity; growth hormone receptor binding; non-membrane spanning protein tyrosine kinase activity; nucleotide binding; protein binding; protein tyrosine kinase activity; transferase activity

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