JAK1 recombinant protein

JAK1 Mutant (R724H), Active

CATALOG #	HOST	APPLICATIONS
AAA72992	**Sf9 insect cells using baculovirus**	**Kinase Assay**

PRODUCT SYNONYMS

JAK1; JAK1 Mutant (R724H); Active; JAK1 (R724H); JAK1 recombinant protein

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells using baculovirus
Form/Format	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Sequence Positions	438-end (R724H)
Sequence Length	5118
Applicable Applications for JAK1 recombinant protein	Kinase Assay
Species	Human
Tag	GST tag
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES

Application Data

Application Data

ADDITIONAL INFORMATION

Related Product Information for JAK1 recombinant protein	Description: Recombinant human JAK1 (R724H) (438-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. Scientific Background: JAK1 is a member of protein-tyrosine kinases (PTK) characterized by the presence of a second phosphotransferase-related domain immediately N-terminal to the PTK domain. JAK1 bears all the hallmarks of a protein kinase, although its structure differs significantly from that of the PTK and threonine/serine kinase family members. JAK1 is a large, widely expressed membrane-associated phosphoprotein that is involved in the interferon-alpha/beta and -gamma signal transduction pathways (1). JAK1 plays an essential and nonredundant role in promoting biologic responses induced by a select subset of cytokine receptors, including those in which JAK utilization is thought to be nonspecific (2).
Product Categories/Family for JAK1 recombinant protein	Enzymes; Active Kinase Mutants

References	1. Muller, M.et.al: The protein tyrosine kinase JAK1 complements defects in interferon-alpha/beta and -gamma signal transduction. Nature 366: 129-135, 1993. 2. Rodig, S. J.et.al: Disruption of the Jak1 gene demonstrates obligatory and nonredundant roles of the Jaks in cytokine-induced biologic responses. Cell 93: 373-383, 1998.

NCBI AND UNIPROT INFORMATION

NCBI GI #	1013393040
NCBI GeneID	3716
NCBI Accession #	NM_002227.3
NCBI GenBank Nucleotide #	NM_002227
UniProt Accession #	P23458; Q59GQ2; Q9UD26
Molecular Weight	~105 kDa
NCBI Official Full Name	Homo sapiens Janus kinase 1 (JAK1), transcript variant 1, mRNA
NCBI Official Synonym Full Names	Janus kinase 1
NCBI Official Symbol	JAK1
NCBI Official Synonym Symbols	JTK3; JAK1A; JAK1B
NCBI Protein Information	tyrosine-protein kinase JAK1
UniProt Protein Name	Tyrosine-protein kinase JAK1
UniProt Gene Name	**JAK1**
UniProt Synonym Gene Names	JAK1A; JAK1B; JAK-1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/jak1-recombinant-protein-sf9-insect-cells-using-baculovirus-kinase-assay/72992