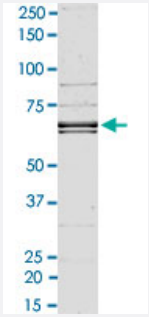
Bioactive

JAK3 (Human) Recombinant Protein

Catalog # P4709 Size 100 ug

Applications



Result of activity analysis

Result of activity analysis

Specification

Product Description	Human JAK3 (NP_000206.1, 781 a.a. - 1124 a.a.) partial recombinant protein with GST-His tag expressed in Sf9 cells.
Host	insect
Theoretical MW (kDa)	68.379
Form	Liquid
Preparation Method	Insect cell (Sf9) expression system
Purification	GST-Affinity Chromatography
Activity	5 pmol/ug x min

Quality Control Testing	2 ug/lane SDS-PAGE Stained with Coomassie Blue
Storage Buffer	In 50 mM Tris-HCl, 100 mM NaCl, pH 8.0. (5 mM DTT, 4 mM reduced glutathione, 20% glycerol)
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing
Note	Result of activity analysis Result of activity analysis

Applications

- Functional Study
- SDS-PAGE

Gene Info — JAK3

Entrez GeneID	3718
Protein Accession#	NP_000206.1
Gene Name	JAK3
Gene Alias	JAK-3, JAK3_HUMAN, JAKL, L-JAK, LJAK
Gene Description	Janus kinase 3 (a protein tyrosine kinase, leukocyte)
Omim ID	600173
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the Janus kinase (JAK) family of tyrosine kinases involved in cytokine receptor-mediated intracellular signal transduction. It is predominantly expressed in immune cells and transduces a signal in response to its activation via tyrosine phosphorylation by interleukin receptors. Mutations in this gene are associated with autosomal SCID (severe combined immunodeficiency disease). [provided by RefSeq
Other Designations	Janus kinase 3|leukocyte Janus kinase|tyrosine-protein kinase JAK3

Publication Reference

- Design and Synthesis of a Highly Selective JAK3 Inhibitor for the Treatment of Rheumatoid Arthritis.

  He L, Pei H, Lan T, Tang M, Zhang C, Chen L.

  Archiv Der Pharmazie 2017 Sep; 350(11).

  Application: Func, Recombinant protein

Pathway

- Chemokine signaling pathway
- Jak-STAT signaling pathway
- Primary immunodeficiency

Disease

- Birth Weight
- Cardiovascular Diseases
- Diabetes Mellitus
- Disease Progression
- Edema
- Genetic Predisposition to Disease
- Glioblastoma
- Glioma
- Hematologic Diseases
- Hodgkin Disease
- Immunologic Deficiency Syndromes
- Kidney Failure
- Leukemia
- Leukemia-Lymphoma
- Lung Neoplasms

- Lymphoma
- Lymphopenia
- Lymphoproliferative Disorders
- Meningeal Neoplasms
- Meningioma
- Multiple Myeloma
- Myelodysplastic Syndromes
- Neovascularization
- Occupational Diseases
- Papillomavirus Infections
- Pulmonary Disease
- Severe combined immunodeficiency
- Urinary Bladder Neoplasms
- Uterine Cervical Neoplasms
- Waldenstrom Macroglobulinemia
- Werner syndrome