Active Recombinant Human TYK2, GST-tagged

Cat. No. TYK2-1505H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TYK2 (JTK1) (442-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	442 aa-end
Description	TYK2 is a member of the tyrosine kinase and, more specifically, the Janus kinases (JAKs) protein families which associates with the cytoplasmic domain of type I and type II cytokine receptors and promulgate cytokine signals by phosphorylating receptor subunits. It is also component of both the type I and type III interferon signaling pathways. TYK2 play a role in anti-viral immunity and TYK2 plays an indispensable role in controlling responses to multiple cytokines in humans. Tyk2 contributes selectively to signals triggered by various biologic stimuli and cytokine receptors and TYK2 is an important regulator of lymphoid tumor surveillance.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	24 nmol/min/mg
Molecular Mass	~110 kDa

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Purity	>70%
Applications	Kinase Assay, Western Blot
Storage	Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1μg/μl

GENE INFORMATION

Gene Name	TYK2 tyrosine kinase 2 [Homo sapiens]
Official Symbol	TYK2
Synonyms	TYK2; tyrosine kinase 2; non-receptor tyrosine-protein kinase TYK2; JTK1;
Gene ID	7297
mRNA Refseq	NM_003331
Protein Refseq	NP_003322
MIM	176941
UniProt ID	P29597
Chromosome Location	19p13.2
Pathway	Cytokine Signaling in Immune system, organism-specific biosystem; Hepatitis C, organism-specific biosystem; Hepatitis C, conserved biosystem; Herpes simplex

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	infection, organism-specific biosystem; Herpes simplex infection, conserved biosystem; IL-3 Signaling Pathway, organism-specific biosystem; IL-4 signaling Pathway, organism-specific biosystem;
Function	ATP binding; growth hormone receptor binding; non-membrane spanning protein tyrosine kinase activity; nucleotide binding; protein tyrosine kinase activity;

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