

## Recombinant Human TYK2

**Cat. No.** TYK2-31641TH    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant fragment of Human TYK2 with a proprietary tag: predicted molecular weight 36.63 kDa.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>ProteinLength</b>	100 amino acids
<b>Description</b>	This gene encodes a member of the tyrosine kinase and, more specifically, the Janus kinases (JAKs) protein families. This protein 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. As such, it may play a role in anti-viral immunity. A mutation in this gene has been associated with hyperimmunoglobulin E syndrome (HIES) - a primary immunodeficiency characterized by elevated serum immunoglobulin E.
<b>Molecular Weight</b>	36.630kDa inclusive of tags
<b>Tissue specificity</b>	Observed in all cell lines analyzed. Expressed in a variety of lymphoid and non-lymphoid cell lines.
<b>Biological activity</b>	useful for Antibody Production and Protein Array

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<b>Form</b>	Liquid
<b>Purity</b>	Proprietary Purification
<b>Storage buffer</b>	pH: 8.00 Constituents: 0.79% Tris HCl, 0.31% Glutathione Note: Glutathione is reduced
<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
<b>Sequences of amino acids</b>	PVCHLRLLAQAEGEPCYIRD SGVAPTDPGPESAAGPPTHEVLVTGTGGIQWWPVEE EVNKEEGSSGSSGRNPQASLFGKKAKAHKAVGQPADRPREPLWA
<b>Sequence Similarities</b>	Belongs to the protein kinase superfamily. Tyr protein kinase family. JAK subfamily. Contains 1 FERM domain. Contains 1 protein kinase domain. Contains 1 SH2 domain.

## GENE INFORMATION

<b>Gene Name</b>	TYK2 tyrosine kinase 2 [ Homo sapiens ]
<b>Official Symbol</b>	TYK2
<b>Synonyms</b>	TYK2; tyrosine kinase 2; non-receptor tyrosine-protein kinase TYK2; JTK1;
<b>Gene ID</b>	7297
<b>mRNA Refseq</b>	NM_003331
<b>Protein Refseq</b>	NP_003322
<b>MIM</b>	176941

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<b>Uniprot ID</b>	P29597
<b>Chromosome Location</b>	19p13.2
<b>Pathway</b>	Cytokine Signaling in Immune system, organism-specific biosystem; Hepatitis C, organism-specific biosystem; Hepatitis C, conserved biosystem; Herpes simplex infection, organism-specific biosystem; Herpes simplex infection, conserved biosystem;
<b>Function</b>	ATP binding; growth hormone receptor binding; non-membrane spanning protein tyrosine kinase activity; nucleotide binding; protein tyrosine kinase activity;

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