

## Recombinant Human TYK2, His-tagged

**Cat. No.** TYK2-702H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human TYK2(a.a. 871-1187), fused with N-terminal His-tag, was expressed in a Baculovirus-infected Sf9 cell expression system.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>ProteinLength</b>	871-1187 a.a.
<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>Form</b>	45 mM Tris, pH 8, 125 mM NaCl, 2.4 mM KCl, 0.045% Tween-20, 100 mM imidazole and 10% glycerol.
<b>Molecular Mass</b>	38 kDa
<b>Applications</b>	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

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**Quality Control Test** Assay conditions: Assay was done in Kinase buffer containing 0.2 mM DTT using Poly-(Glu4:Tyr)-biotin substrate (0.2 mg/ml) and 20 mM ATP. Reaction was done at 30°C for 30 minutes. Amount of ATP transferred was calculated using Kinase-Glo reagent (Promega).

**Stability** >6 months at -80°C

## GENE INFORMATION

**Gene Name** TYK2 tyrosine kinase 2 [ Homo sapiens (human) ]

**Official Symbol** TYK2

**Synonyms** TYK2; JTK1; tyrosine kinase 2; non-receptor tyrosine-protein kinase TYK2; NP\_003322.3; EC 2.7.10.2

**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; Epstein-Barr virus infection; Herpes simplex infection

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**Function**

ATP binding; growth hormone receptor binding; non-membrane spanning protein tyrosine kinase activity

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