

Recombinant Human TYK2, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Human TYK2(a.a. 871-1187), fused with N-terminal His-tag, was expressed in a Baculovirus-infected Sf9 cell expression system.
Species	Human
Source	Sf9 Cells
ProteinLength	871-1187 a.a.
Description	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.
Form	45 mM Tris, pH 8, 125 mM NaCl, 2.4 mM KCl, 0.045% Tween-20, 100 mM imidazole and 10% glycerol.
Molecular Mass	38 kDa
Applications	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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