

TYK2 Protein, Human, Recombinant (E. coli, His)

General Information

Synonyms:	Non-receptor tyrosine-protein kinase TYK2;TYK2
Protein Construction:	589-875 aa
Species:	Human
Expression Host:	E. coli
Accession:	P29597
Molecular Weight:	37.9 kDa (predicted)
AA Sequence:	ITQLSHLGGQTRTNVYEGRLRVEGSGDPEEGKMDDEDPLVPGRRDQELRVVLKVLDP SHHDIALAFYETASL MSQVSHTHLAFVHGVCVRGPENIMVTEYVEHGPLDVWLRRRERGHVPMAWKMVVAQQLASALSYLENKNLV HGNVCGRNILLARLGLAEGTSPFIKLSDPGVGLGALSREERVERIPWLAPECLPGGANSLSLAMDKWGFATL LEICFDGEAPLQSRSPSEKEHFYQRQHRLPEPSCPQLATLTSQCLTYEPTQRPSFRTILRDLRLQPHNLA

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:	Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.
Stability & Storage:	Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots. <small>Actual storage temperature shall be subject to the COA.</small>

Shipping:	In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.
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Protein Background

Non-receptor kinase involved in various processes including cell growth, development, cell migration, innate and

adaptive immunity. Plays both structural and catalytic roles in numerous cytokines and interferons signaling. Associates with cytokine and growth factor receptors and activate STAT family members including STAT1, STAT3, STAT4 or STAT6. The heterodimeric cytokine receptor complexes are composed of a TYK2-associated receptor chain (IFNAR1, IL12RB1, IL10RB or IL13RA1) which serves as the signal transducing chain harboring STAT docking sites once phosphorylated by TYK2, and a second receptor chain associated either with JAK1 or JAK2. In turn, recruited STATs are phosphorylated, form homo- and heterodimers, translocate to the nucleus, and regulate cytokine/growth factor responsive genes. Negatively regulates STAT3 activity by promoting phosphorylation at a specific tyrosine that differs from the site used for signaling.

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