

Recombinant Full Length Human TYK2 Protein, C-Flag-tagged

Cat. No. TYK2-636HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human TYK2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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 a 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 Immunodeficiency 35.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	133.7 kDa
AA Sequence	MPLRHWGMARGSKPVG DGAQPMAMGGLKVLLHWAGPGGGEPWVTFSESSLTA EEVCIHIAHKVGITPPC FNL FALFDAQAQVWLPPNHILEIPRDASLMLYFRIRFYFRN WHGMNPREPAVYRCGPPGTEASSDQTAQG MQLDPASFEYLFEQ GKHEFVNDVA SLWELSTEEIHHFKNESLGMAFLHLCHLALRHGIPLEEVAKKTS FKDCIPRSFRRHI RQHSALTRLRLRN VFRRFLRDFQPGRLSQQMVMVKYLATLERLAPRFGTERVPVCH L RLLAQAEGEPCYIRD SGVAPTDPGPESAAGPPTHEVLVTGTGGIQWWPVEEEVN KEEGSSGSSGRNPQAS LFGKKAKAHKAVGQPADRPREPLWAYFCDFRDITHVVLK

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EHCVSIHRQDNKCLELSLPSRAAALS FVSLV DGYFRLTADSSHYLCHEVAPPRLVM
 SIRDGIHGPLEPFVQAKLRPEDGLYLIHWSTSHPYRLILTVAQR SQAPDGMQSLRL
 RKFPIEQQDGAFVLEGWGRSFPSVRELGAALQGCLLRAGDDCFSLRRCCLPQPGE
 TSN LIIMRGARASPTLNLSQLSFHRVDQKEITQLSHLGQGTRTNVYEGRLRVEGSG
 DPEEGKMDDDEDPLVPG RDRGQELRVVLKVLDPSHHDIALAFYETASLMSQVSHTHL
 AFVHGVCVRGPENIMVTEYVEHGPLDVWLR RERGHVPMAWKMVVAQQLASALS
 LENKNLVHGNVCGRNILLARLGLAEGTSPFIKLSDPGVGLGALSRE ERVERIPWLAP
 ECLPGGANSLSTAMDKWGFATLLEICFDGEAPLQSRSPSEKEHFYQRQHRLEPS
 CPQ LATLTSQCLTYEPTQRPSFRTILRDLTRLQPHNLADVLTVPDSPA SDPTVFHK
 RYLKKIRDLGEGHFGK VSLYCYDPTNDGTGEMVAVKALKADC GPQHRSGWKQEIDI
 LRTLYHEHIIKYKGCCEDQGEKSLQLVMEY VPLGSLRDYLPRHSIGLAQLLLFAQQIC
 EGMAYLHSQHYIHRDLAARNVLLDNDRLVKIGDFGLAKAVPE GHEYRVREDGDSP
 VFWYAPECLKEYKFYYASDVWSFGVTLYELLTHCDSSQSPPTKFLELIGIAQQGMT
 VLRLTELLERGERLPRPDKCPCEVYHLMKNCWETEASFRPTFENLIPILKTVHEKYQ
 GQAPSVFSVCTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Protein Kinase

Protein Pathways	Jak-STAT signaling pathway
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Full Length	Full L.
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GENE INFORMATION

Gene Name	TYK2 tyrosine kinase 2 [Homo sapiens (human)]
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Official Symbol	TYK2
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Synonyms	JTK1; IMD35
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Gene ID	7297
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mRNA Refseq	NM_003331.5
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Protein Refseq	NP_003322.3
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MIM	176941
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UniProt ID	P29597
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