# Recombinant Full Length Human BTK Protein, C-Flag-tagged

**Cat. No.** BTK-985HFL **Lot. No.** (See product label)

## SPECIFICATION

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|---|---|
| **Product Overview** | Recombinant Full Length Human BTK Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells. |
| **Species** | Human |
| **Source** | Mammalian Cells |
| **Description** | The protein encoded by this gene plays a crucial role in B-cell development. Mutations in this gene cause X-linked agammaglobulinemia type 1, which is an immunodeficiency characterized by the failure to produce mature B lymphocytes, and associated with a failure of Ig heavy chain rearrangement. Alternative splicing results in multiple transcript variants encoding different isoforms. |
| **Form** | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol. |
| **Molecular Mass** | 76.1 kDa |
| **AA Sequence** | MAAVILESIFLKRSQQKKKTSPLNFKKRLFLLTVHKLSYYEYDFERGRRGSKKGSIDV EKITCVETVVPE KNPPPERQIPRRGEESSEMEQISIIERFPYPFQVVYDEGPLYVFSP TEELRKRWIHQLKNVIRYNSDLVQ KYHPCFWIDGQYLCCSQTAKNAMGCQILENRN GSLKPGSSHRKTKKPLPPTPEEDQILKKPLPPEPAAAP VSTSELKKVVALYDYMPMN ANDLQLRKGDEYFILEESNLPWWRARDKNGQEGYIPSNYVTEAEDSIEMYE WYSK HMTRSQAEQLLKQEGKEGGFIVRDSSKAGKYTVSVFAKSTGDPQGVIRHYVVCSTP QSQYYLAEKH LFSTIPELINYHQHNSAGLISRLKYPVSQQNKNAPSTAGLGYGSWEI DPKDLTFLKELGTGQFGVVKYGK WRGQYDVAIKMIKEGSMSEDEFIEEAKVMMNLS |

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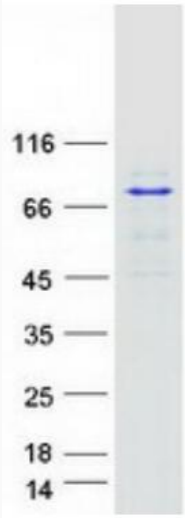
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|---|---|
| | HEKLVQLYGVCTKQRPIFIITEYMANGCLLNYLREMR HRFQTQQLLEMCKDVCEAM EYLESKQFLHRDLAARNCLVNDQGVVKVSDFGLSRYVLDDEYTSSVGSKFP VRWS PPEVLMYSKFSSKSDIWAFGVLMWEIYSLGKMPYERFTNSETAEHIAQGLRLYRPHL ASEKVYTIM YSCWHEKADERPTFKILLSNILDVMDEESTRTRPLEQKLISEEDLAANDILDYKDDDD KV |
| **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** | B cell receptor signaling pathway, Fc epsilon RI signaling pathway, Primary immunodeficiency |
| **Full Length** | Full L. |

## GENE INFORMATION

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| **Gene Name** | BTK Bruton tyrosine kinase [ Homo sapiens (human) ] |
| **Official Symbol** | BTK |

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| **Synonyms** | AT; ATK; BPK; XLA; IMD1; AGMX1; IGHD3; PSCTK1 |
| **Gene ID** | 695 |
| **mRNA Refseq** | NM_000061.3 |
| **Protein Refseq** | NP_000052.1 |
| **MIM** | 300300 |
| **UniProt ID** | Q06187 |




Coomassie blue staining of purified BTK protein.

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