

Recombinant Human BTK Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. BTK-092H Lot. No. (See product label)

SPECIFICATION

Product Overview	BTK MS Standard C13 and N15-labeled recombinant protein (NP_000052) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	76.1 kDa
AA Sequence	<p>MAAVILESIFLKRSQQKKKTSPNFKKRLFLLTVHKLSYYEYDFERGRRGSKKGSIDV EKITCVETVVPEKNPPPERQIPRRGEESSEMEQISIIERFPYPFQVVYDEGPLYVFSP TEELRKRWIHQKNVIRYNSDLVQKYHPCFWIDGQYLCCSQTAKNAMGCQILENRN GSLKPGSSHRKTKKPLPPTPEEDQILKKPLPEPAAAPVSTSELKKVVALYDYMPMN ANDLQLRKGDEYFILEESNLPWWRARDKNGQEGYIPSNYVTEAEDSIEMYEWYSKH MTRSQAEQLLKQEGKEGGFIVRDSSKAGKYTVSVFAKSTGDPQGQVIRHYVVCSTPQ SQYYLAEKHLFSTIPELINYHQHNSAGLISRLKYPVSQQNKNAPSTAGLGYGSWEIDP KDLTFLKELGTGQFGVVKYGKWRGQYDVAIKMIKEGSMSEDEFIEEAKVMMNLSHE</p>

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KLVQLYGVCTKQRPIFIITEYMANGCLLNYLREMRHRFQTQQLLEMCKDVCEAMEYL
 ESKQFLHRDLAARNCLVNDQGVVKVSDFGLSRYVLDDEYTSSVGSKFPVRWSPPE
 VLMYSKFSSKSDIWAFGLMWEIYSLGKMPYERFTNSETAEHIAQGLRLYRPHLASE
 KVYTIMYSCWHEKADERPTFKILLSNILDVMDEESTRTRPLEQKLISEEDLAANDILDY
 KDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [BTK Bruton tyrosine kinase \[Homo sapiens \(human\) \]](#)

Official Symbol [BTK](#)

Synonyms BTK; Bruton tyrosine kinase; AGMX1; AT; ATK; BPK; IGHD3; IMD1; PSCTK1; XLA; tyrosine-protein kinase BTK; B-cell progenitor kinase; Bruton agammaglobulinemia tyrosine kinase; Bruton's tyrosine kinase; agammaglobulinaemia tyrosine kinase; dominant-negative kinase-deficient Brutons tyrosine kinase; truncated Bruton agammaglobulinemia tyrosine kinase; EC 2.7.10.2

Gene ID [695](#)

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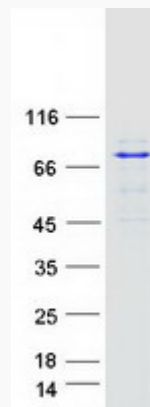
mRNA Refseq [NM_000061](#)

Protein Refseq [NP_000052](#)

MIM [300300](#)

UniProt ID [Q06187](#)

SDS-PAGE



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