

Product datasheet for PH311582

BTK (NM_000061) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	BTK MS Standard C13 and N15-labeled recombinant protein (NP_000052)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC211582
Predicted MW:	76.1 kDa
Protein Sequence:	>RC211582 representing NM_000061 Red=Cloning site Green=Tags(s)

MAVILESIFLKRQKKTSPNFKKRLFLTLVHKLSYYEYDFERGRGSKKGSIDVEKITCVETVVP
KNPPPERQIPRRGEESEMEQISIIERFPYPFQVYDEGPLYVFSPTTELRKRWIHQKKNVIRYNSDLVQ
KYHPCFWIDGQYLCCSQAKNAMGCQILENRNGSLKPGSSHRKTKKPLPPTPEEDQILKKPLPPEPAAAP
VSTSELKKVVALYDYPMPNANDLQLRKGDEYFIEESNLPWWRARDKNGQEGYIPSNYVTEAEDSIEMYE
WYSKHMTRSQAELLKQEGKEGGFIVRDSKAGKYTVSVFAKSTGDPQGVIRHYVVCSTPQSQYYLAEKH
LFSTIPELINYHQHNSAGLISRLKYPVSQQNKAPSTAGLGYGSWEIDPKDLTFLKELGTGQFGVVKYKG
WRGQYDVAIKMIKEGSMSEDEFIEEAKVMMNLSHEKLVQLYGVCTKQRPFIITEYMANGCLLNLYREMR
HRFQTQQLLEMCKDVCEAMEYLESKQFLHRDLAARNCLVNDQGVVKVSDFGLSRYVLDDEYTSVSGSKFP
VRWSPPEVLMYSKFSSKSDIWAFGVLMWEIYSLGKMPYERFTNSETAEHIAQGLRLYRPHLASEKVYTIM
YSCWHEKADERPTFKILLSNILDVMDEES

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_000052</u>
RefSeq Size:	2591



[View online »](#)

RefSeq ORF: 1977

Synonyms: AGMX1; AT; ATK; BPK; IGHD3; IMD1; PSCTK1; XLA

Locus ID: 695

UniProt ID: [Q06187](#), [Q5JY90](#)

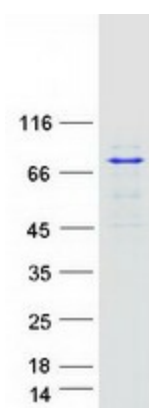
Cytogenetics: Xq22.1

Summary: 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. [provided by RefSeq, Dec 2013]

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: B cell receptor signaling pathway, Fc epsilon RI signaling pathway, Primary immunodeficiency

Product images:



Coomassie blue staining of purified BTK protein (Cat# [TP311582]). The protein was produced from HEK293T cells transfected with BTK cDNA clone (Cat# [RC211582]) using MegaTran 2.0 (Cat# [TT210002]).