

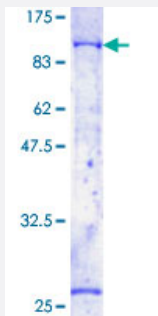
Full-Length

BTK (Human) Recombinant Protein (P01)

Catalog # H00000695-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human BTK full-length ORF (NP_000052.1, 1 a.a. - 659 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MAVILESIFLKRSQQKKKTSPNFKKRLFLLTVHKLSYYEYDFERGRRGSKKGSIDVEKITCVETV
VPEKNPPPERQIPRRGEESSEMEQISIERFPYPFQVVYDEGPLYVFSPTTELKRKWIHLKKNVIRY
NSDLVQKYHPCFWIDGQYLCCSQTAKNAMGCQILENRNGSLKPGSSHRKTKKPLPTPEEDQILK
KPLPPEPAAAPVSTSELKKVVALYDYPMNANDLQLRKGDYFILEESNLPWWRRARDKNGQEGY
IPSNYVTEAEDSIEMYEWYSKHMTRSQAELLKQEGKEGGFMRDSSKAGKYTVSVFAKSTGDPQ
GVIRHYVVCSTPQSQYLAEKHLFSTIPELINYHQHNSAGLISRLKYPVSQQKNAPSTAGLGYGSW
EIDPKDLTFLKELGTGQFGVVKYGKWRGQYDVAIKMKEGSMSEDEFIEEAKVMMNLSHEKLVQL
YGVCTKQRPFIITEYMANGCLLNYLREMRHRFQTQQLLEMCKDVCEAMEYLESKQFLHRDLAARN
CLVNDQGVVKVSDFGLSRYVLDDEYTSSVGSKFPVRWSPPEVLMYSKFSSKSDWAFGVLWWE
YSLGKMPYERFTNSETAEHIAQGLRLYRPHLASEKVYTIMYSCWHEKADERPTFKILLSNILDVMDE
ES

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

98.12

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — BTK

Entrez GeneID	695
GeneBank Accession#	NM_000061.1
Protein Accession#	NP_000052.1
Gene Name	BTK
Gene Alias	AGMX1, AT, ATK, BPK, IMD1, MGC126261, MGC126262, PSCTK1, XLA
Gene Description	Bruton agammaglobulinemia tyrosine kinase
Omim ID	300300 307200
Gene Ontology	Hyperlink
Gene 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. [provided by RefSeq]
Other Designations	B-cell progenitor kinase Bruton tyrosine kinase OTTHUMP00000023676 OTTHUMP00000063593 agammaglobulinemia tyrosine kinase dominant-negative kinase-deficient Brutons tyrosine kinase tyrosine-protein kinase BTK

Pathway

- [B cell receptor signaling pathway](#)
- [Fc epsilon RI signaling pathway](#)
- [Primary immunodeficiency](#)

Disease

- [Agammaglobulinemia](#)
- [Asthma](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Diseases](#)
- [HIV Infections](#)
- [Immunologic Deficiency Syndromes](#)
- [Lymphoproliferative Disorders](#)
- [Myelodysplastic Syndromes](#)
- [Severe Combined Immunodeficiency](#)