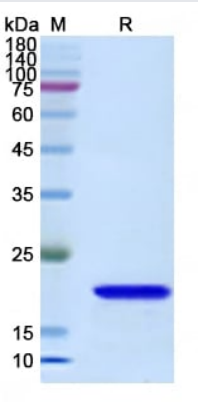
BTK Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	BTK, Recombinant Protein
Full Product Name	Recombinant Human BTK, N-His
Product Gene Name	BTK recombinant protein
Product Synonym Names	BPK; Tyrosine-protein kinase BTK; AGMX1; Agammaglobulinemia tyrosine kinase; Bruton tyrosine kinase; BTK; ATK; B-cell progenitor kinase
Host	E coli
Form/Format	Lyophilized from a solution in PBS pH7.4, 0.02% NLS, 1mM EDTA, 4% Trehalose, 1% Mannitol.
Purity/Purification	>90% as determined by SDS-PAGE
Preparation and Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 degree C for one week. Store at -20 to -80 degree C for twelve months from the date of receipt.
Molecular Weight	80kDa
Sequence Positions	Arg28-Thr184
Chromosome Location	Chromosome: X; NC_000023.10 (100604435..100641212, complement). Location: Xq21.33-q22
OMIM	300300
3D Structure	ModBase 3D Structure for Q06187
Species	Human
Reconstitution	Reconstitute in sterile water for a stock solution.
Product Categories/Family for BTK recombinant protein	Recombinant Proteins
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for BTK recombinant protein	SDS-PAGE (SDS), Western Blot (WB), ELISA (EIA), Immunogen
Related Product Information for BTK recombinant protein	MBS1574497 is a recombinant protein targeting BTK. Also known as Recombinant Human BTK, N-His. Host: E coli.
Other Notes	Small volumes of BTK recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



SDS-Page of BTK recombinant protein
SDS PAGE for recombinant Human BTK

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BTK. It may not necessarily be applicable to this product.

NCBI GI #	4557377
NCBI GeneID	695
NCBI Accession #	NP_000052.1
UniProt Primary Accession #	Q06187
UniProt Secondary Accession #	Q32ML5
UniProt Related Accession #	Q06187
GenBank Nucleotide #	NM_000061.2
NCBI Official Full Name	tyrosine-protein kinase BTK
NCBI Official Synonym Full Names	Bruton agammaglobulinemia tyrosine kinase
NCBI Official Symbol	BTK
NCBI Official Synonym Symbols	AT; ATK; BPK; XLA; IMD1; AGMX1; PSCTK1
UniProt Protein Name	Tyrosine-protein kinase BTK
UniProt Synonym Protein Names	Agammaglobulinemia tyrosine kinase; ATK; B-cell progenitor kinase; BPK; Bruton tyrosine kinase
Protein Family	Tyrosine-protein kinase
UniProt Gene Name	BTK
UniProt Synonym Gene Names	AGMX1; ATK; BPK; ATK; BPK
UniProt Entry Name	BTK_HUMAN
NCBI Protein Information	tyrosine-protein kinase BTK; B-cell progenitor kinase; agammaglobulinaemia tyrosine kinase; tyrosine-protein kinase BTK isoform (lacking exon 14); dominant-negative kinase-deficient Brutons tyrosine kinase
NCBI Summary for BTK	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, Nov 2008]

UniProt Comments for BTK	Btk: a tyrosine kinase of the Tec family. Plays a crucial role in B-cell ontogeny. Defects cause X-linked agammaglobulinemia, an immunodeficiency characterized by failure to produce mature B lymphocyte cells and associated with a failure of Ig heavy chain rearrangement. Truncated splice forms found in childhood leukemias may underlie radiation resistance of tumors through inhibition of apoptosis. Protein type: Protein kinase, TK; EC 2.7.10.2; Protein kinase, tyrosine (non-receptor); Kinase, protein; TK group; Tec family Chromosomal Location of Human Ortholog: Xq21.33-q22 Cellular Component: extrinsic to internal side of plasma membrane; mast cell granule; intracellular membrane-bound organelle; perinuclear region of cytoplasm; cytoplasm; plasma membrane; cytoplasmic vesicle; nucleus; cytosol; lipid raft Molecular Function: identical protein binding; protein binding; phosphatidylinositol-3,4,5-triphosphate binding; metal ion binding; protein-tyrosine kinase activity; non-membrane spanning protein tyrosine kinase activity; ATP binding; receptor binding Biological Process: I-kappaB kinase/NF-kappaB cascade; adaptive immune response; transcription, DNA-dependent; B cell activation; cell maturation; calcium-mediated signaling; protein amino acid phosphorylation; T cell receptor signaling pathway; regulation of cell proliferation; toll-like receptor 2 signaling pathway; activation of NF-kappaB transcription factor; regulation of B cell cytokine production; MyD88-dependent toll-like receptor signaling pathway; regulation of B cell apoptosis; B cell receptor signaling pathway; histamine secretion by mast cell; toll-like receptor signaling pathway; innate immune response; positive regulation of B cell differentiation; mesoderm development; cell differentiation; toll-like receptor 4 signaling pathway; transmembrane receptor protein tyrosine kinase signaling pathway Disease: Isolated Growth Hormone Deficiency, Type Iii; Agammaglobulinemia, X-linked
Research Articles on BTK	**1.** study reveals the existence of Btk-dependent molecular cooperation between FcgammaRIIa and TLR4 signaling cascades in LPS-"primed" human neutrophils
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