

Active Recombinant Human BTK protein

Cat. No. BTK-26220TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human BTK fused with Proprietary tag at C-terminal was expressed in Insect cells.
Species	Human
Source	Insect 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	30% Glycerol, 0.05% Tween 20, 3mM DTT, 25mM Tris HCl, 100mM Sodium chloride, 10mM reduced Glutathione, pH 8.0
Bio-activity	>450 U/mg
Molecular Mass	106 kDa
Unit Definition	One unit defined as the amount of enzyme that will transfer 1nmol phosphate to Tyr substrate per minute at pH 7.4 and 30 centigrade.
Applications	Inhibition Assay

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Storage	Upon delivery aliquot. Store at -80 centigrade. Avoid freeze / thaw cycle.
Concentration	Batch dependent within range: 10 g at 0.36 - 1 mg/ml
GENE INFORMATION	
Gene Name	BTK Bruton agammaglobulinemia tyrosine kinase [Homo sapiens]
Official Symbol	BTK
Synonyms	BTK; Bruton agammaglobulinemia tyrosine kinase; AGMX1, IMD1; tyrosine-protein kinase BTK; ATK; PSCTK1; XLA; B-cell progenitor kinase; agammaglobulinaemia tyrosine kinase; tyrosine-protein kinase BTK isoform (lacking exon 14); dominant-negative kinase-deficient Brutons tyrosine kinase; AT; BPK; IMD1; AGMX1; MGC126261; MGC126262;
Gene ID	695
mRNA Refseq	NM_000061
Protein Refseq	NP_000052
MIM	300300
UniProt ID	Q5JY90
Chromosome Location	Xq21.33-q22
Pathway	Adaptive Immune System, organism-specific biosystem; Antigen Activates B Cell Receptor Leading to Generation of Second Messengers, organism-specific

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biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; B cell receptor signaling pathway, organism-specific biosystem; B cell receptor signaling pathway, conserved biosystem; BCR signaling pathway, organism-specific biosystem; Class I PI3K signaling events, organism-specific biosystem;

Function

ATP binding; ATP binding; identical protein binding; kinase activity; lipid binding; metal ion binding; non-membrane spanning protein tyrosine kinase activity; nucleotide binding; phosphatidylinositol-3,4,5-trisphosphate binding; protein binding; protein kinase activity; protein tyrosine kinase activity; protein tyrosine kinase activity;

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