

Active Recombinant Rat Btk protein, GST-tagged

Cat. No. Btk-185R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Btk fused with GST tag at N-terminal was expressed in Insect cells.
Species	Rat
Source	Insect Cells
Description	BTK (also known as Bruton tyrosine kinase) plays a crucial role in B-lymphocyte differentiation and activation. BTK interacts with SRC homology 3 domains of FYN, LYN and HCK that are activated upon stimulation of B- and T-cell receptors. Defects in the BTK gene cause Agammaglobulinemia, an X-linked immunodeficiency characterized by failure to produce mature B lymphocyte cells and associated with a failure of Ig heavy chain rearrangement. The unique role of BTK makes it a desirable target for potential anti-cancer, anti-inflammatory and anti-viral agents as well as other treatments.
Form	50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
Bio-activity	66 nmol/min/mg
Molecular Mass	~105 kDa
Purity	>95%
Applications	Kinase Assay, Western Blot

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Stability	1yr at -70 centigrade from date of shipment
Storage	Store product at -70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1 g/μ

GENE INFORMATION

Gene Name	Btk Bruton agammaglobulinemia tyrosine kinase [<i>Rattus norvegicus</i>]
Official Symbol	Btk
Synonyms	BTK; Bruton agammaglobulinemia tyrosine kinase; tyrosine-protein kinase BTK;
Gene ID	367901
mRNA Refseq	NM_001007798
Protein Refseq	NP_001007799
MIM	
UniProt ID	
Chromosome Location	Xq34
Pathway	B Cell Receptor Signaling Pathway, organism-specific biosystem; B cell receptor signaling pathway, organism-specific biosystem; B cell receptor signaling pathway, conserved biosystem; Fc epsilon RI signaling pathway, organism-specific biosystem;

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Fc epsilon RI signaling pathway, conserved biosystem; IL-5 Signaling Pathway, organism-specific biosystem; IL-6 Signaling Pathway, organism-specific biosystem;

Function

identical protein binding; phosphatidylinositol-3,4,5-trisphosphate binding; protein tyrosine kinase activity; protein tyrosine kinase activity;

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