

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/μl
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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