

Active Recombinant Human BTK, His-tagged

Cat. No. IBTK-1370H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human BTK was expressed by baculovirus in Sf9 insect cells using a N-terminal His tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full length
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	Recombinant protein stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.2mM DTT, 25% glycerol.
Bio-activity	43 nmol/min/mg
Molecular Mass	~78 kDa

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Purity	>90%
Applications	Kinase Assay, Western Blot
Storage	Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1 µg/µl

GENE INFORMATION

Gene Name	IBTK inhibitor of Bruton agammaglobulinemia tyrosine kinase [Homo sapiens]
Official Symbol	IBTK
Synonyms	IBTK; inhibitor of Bruton agammaglobulinemia tyrosine kinase; Bruton agammaglobulinemia tyrosine kinase inhibitor , BTKI; inhibitor of Bruton tyrosine kinase; DKFZP564B116; BTK-binding protein; inhibitor of Brutons tyrosine kinase; inhibitor of Brutons tyrosine kinase-beta; inhibitor of Brutons tyrosine kinase-alpha; inhibitor of Brutons tyrosine kinase-gamma; Bruton agammaglobulinemia tyrosine kinase inhibitor; BTKI; RP1-93K22.1; KIAA1417; MGC142256; MGC142258;
Gene ID	25998
mRNA Refseq	NM_015525
Protein Refseq	NP_056340
MIM	606457
UniProt ID	Q9P2D0

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Chromosome Location	6q14.3
Pathway	BCR signaling pathway, organism-specific biosystem;
Function	protein kinase binding; protein tyrosine kinase inhibitor activity;

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