

# Active Recombinant Full Length Human BTK Protein, Flag tagged

**Cat. No.** BTK-20HFL    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human BTK protein was expressed in a baculovirus expression system as the full length protein (accession number NP_000052.1) with an N-terminal FLAG tag.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>ProteinLength</b>	1-659 aa
<b>Description</b>	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.
<b>Form</b>	Recombinant BTK protein is in 25 mM HEPES-NaOH pH 7.5, 300 mM NaCl, 10% glycerol, 0.04% Triton X-100 and 0.5mM TCEP.
<b>Molecular Mass</b>	77.6 kDa
<b>Purity</b>	≥ 95%
<b>Applications</b>	Recombinant BTK protein is suitable for use in the study of enzyme kinetics, inhibitor

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screening, and selectivity profiling.

**Storage**

Recombinant proteins in solution are temperature sensitive and must be stored at -80 centigrade to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.

**Concentration**

0.5 µg/µL

## GENE INFORMATION

**Gene Name**

BTK Bruton tyrosine kinase [ Homo sapiens (human) ]

**Official Symbol**

BTK

**Synonyms**

BTK; Bruton tyrosine kinase; AT; ATK; BPK; XLA; IMD1; AGMX1; IGHD3; PSCTK1; tyrosine-protein kinase BTK; B-cell progenitor kinase; Bruton agammaglobulinemia tyrosine kinase; Bruton's tyrosine kinase; agammaglobulinaemia tyrosine kinase; dominant-negative kinase-deficient Brutons tyrosine kinase; EC 2.7.10.2

**Gene ID**

695

**mRNA Refseq**

NM\_000061

**Protein Refseq**

NP\_000052

**MIM**

300300

**UniProt ID**

B2RAW1

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