

**Synonym**

AGMX1, ATK, BPK

**Source**

Human BTK Protein, His Tag(BTK-H55H3) is expressed from Baculovirus-Insect cells. It contains AA Met 1 - Ser 659 (Accession # [Q06187-1](#)).

Predicted N-terminus: Met 1

**Molecular Characterization**

**BTK(Met 1 - Ser 659)**  
**Q06187-1** **Poly-his**

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 78.2 kDa. The protein migrates as 55 kDa, 65 kDa and 85-95 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per  $\mu$ g by the LAL method / rFC method.

**Purity**

>90% as determined by SDS-PAGE.

**Formulation**

Supplied as 0.2  $\mu$ m filtered solution in 50 mM Tris, 150 mM NaCl, pH7.5 with glycerol as protectant.

Contact us for customized product form or formulation.

**Shipping**

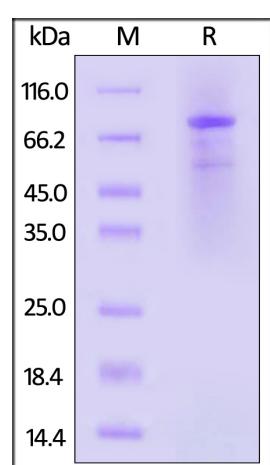
*This product is supplied and shipped with dry ice, please inquire the shipping cost.*

**Storage**

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 3 months under sterile conditions.

**SDS-PAGE**

Human BTK Protein, His Tag on SDS-PAGE under reducing (R) condition.

The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

**Bioactivity**

The BTK assay is performed using the ADP-GloTM Kinase Assay kit which quantifies the amount of ADP produced by the BTK reaction. The ADP-GloTM Reagent is added to terminate the kinase reaction and to deplete the remaining ATP, and then the Kinase Detection Reagent is added to convert ADP to ATP and to measure the newly synthesized ATP using luciferase/luciferin reaction. The specific activity is >25 pmol/min/ug (QC tested).

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## Background

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. [provided by RefSeq, Dec 2013]

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