

## Product datasheet for **TP710016**

### **BTK (NM\_000061) Human Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant protein of human Bruton agammaglobulinemia tyrosine kinase (BTK), full length, with C-terminal polyhistidine tag, expressed in sf9 cell
<b>Species:</b>	Human
<b>Expression Host:</b>	Sf9
<b>Expression cDNA Clone or AA Sequence:</b>	A DNA sequence from TrueORF clone, RC211582, encoding human full-length BTK
<b>Tag:</b>	C-His
<b>Predicted MW:</b>	76 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	50 mM Tris-HCl, pH 8.0, 150 mM NaCl, 20% glycerol
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_000052</a>
<b>Locus ID:</b>	695
<b>UniProt ID:</b>	<a href="#">Q06187</a>
<b>RefSeq Size:</b>	2591
<b>Cytogenetics:</b>	Xq22.1
<b>RefSeq ORF:</b>	1977
<b>Synonyms:</b>	AGMX1; AT; ATK; BPK; IGHD3; IMD1; PSCTK1; XLA



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**Summary:**

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]

**Protein Families:**

Druggable Genome, Protein Kinase

**Protein Pathways:**

B cell receptor signaling pathway, Fc epsilon RI signaling pathway, Primary immunodeficiency

**Product images:**