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Recombinant Human Bruton tyrosine kinase/BTK Kinase

Catalog No.: RP03323LQ Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	695	Q06187

Tags
N-GST

Synonyms
BTK; AGMX1; ATK; BPK; Tyrosine-protein kinase BTK

Product Information

Source	Purification
Baculovirus-Insect Cells	≥ 90 % as determined by SDS-PAGE;≥ 90 % as determined by HPLC.

Calculated MW	Observed MW
102.8 kDa	80-100 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Supplied as a 0.22 μm filtered solution in 50 mM Tris-HCl, 150 mM NaCl, 5% glycerol, 5 mM DTT, 100 mM Trehalose. (pH 7.5). Contact us for customized product form or formulation.

Reconstitution
Please use running water to thaw it quickly.

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Background

Bruton's tyrosine kinase (BTK) is a tyrosine kinase and contains five different protein interaction domains, including an amino terminal pleckstrin homology (PH) domain, a proline-rich TEC homology (TH) domain, SRC homology (SH) domains SH2 and SH3, as well as a protein kinase domain with tyrosine phosphorylation activity. BTK plays a crucial role in B cell development as it is required for transmitting signals from the pre-B cell receptor that forms after successful immunoglobulin heavy chain rearrangement. It also has a role in mast cell activation through the high-affinity IgE receptor.

Basic Information

Description
Recombinant Human Bruton tyrosine kinase/BTK Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Met1-Ser659) of Human BTK (Accession #Q06187) fused with a N-GST tag.

Bio-Activity
The activity of BTK is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

Storage
Store at -70°C. This product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.
Aliquots below 10 μL are not advisable. Product must not be stored in diluted solutions. Avoid repeated freeze-thaw cycles.
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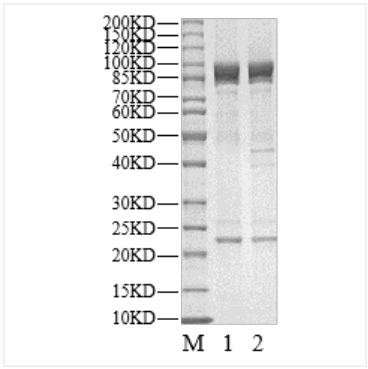
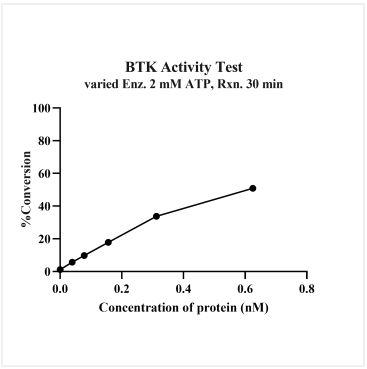
Validation Data



Recombinant Human Bruton tyrosine kinase/BTK Kinase was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.



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