Recombinant Human Bruton tyrosine kinase/BTK Kinase

Catalog No.: RP03323LQ

Sequence Information

Species
Human

Gene ID
695

Swiss Prot
Q06187

Tags
N-GST

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

Product Information

Source
Baculovirus-Insect Cells

Purification
≥ 90 % as determined by SDS-PAGE;≥ 90 % as determined by HPLC.

Calculated MW
102.8 kDa

Observed MW
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.

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.

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.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -70℃

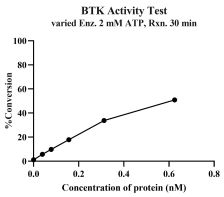
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

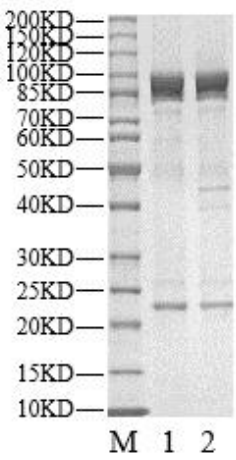
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Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



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.



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