

Bioactive

BTK (C481S) (Human) Recombinant Protein

Catalog # P6473

Size 5 ug

Applications

Result of activity analysis

Result of activity analysis

Specification

Product Description	Human BTK (NP_000052, 2 a.a. - 659 a.a.) C481S mutant partial recombinant protein with GST-tag at N-terminal using baculovirus expression system.
Host	Viruses
Form	Liquid
Preparation Method	Baculovirus expression system.
Purification	Glutathione sepharose chromatography.
Purity	0.85
Activity	The activity was measured by off-chip mobility shift assay. The enzyme was incubated with fluorescein-labeled substrate and Mg (or Mn)/ATP. Substrate: Src tide, ATP: 100 uM.
Quality Control Testing	The purity was assessed by SDS-PAGE/CBB staining.
Storage Buffer	50 mM Tris-HCl, 150 mM NaCl, 0.05% Brij35, 1 mM DTT, 10% glycerol, pH7.5
Storage Instruction	Stored at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Result of activity analysis
Result of activity analysis

Applications

- Functional Study

Gene Info — BTK

Entrez GeneID	695
Protein Accession#	NP_000052
Gene Name	BTK
Gene Alias	AGMX1, AT, ATK, BPK, IMD1, MGC126261, MGC126262, PSCTK1, XLA
Gene Description	Bruton agammaglobulinemia tyrosine kinase
Omim ID	300300 307200
Gene Ontology	Hyperlink
Gene 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. [provided by RefSeq]
Other Designations	B-cell progenitor kinase Bruton tyrosine kinase OTTHUMP00000023676 OTTHUMP00000063593 agammaglobulinemia tyrosine kinase dominant-negative kinase-deficient Brutons tyrosine kinase tyrosine-protein kinase BTK

Pathway

- [B cell receptor signaling pathway](#)
- [Fc epsilon RI signaling pathway](#)
- [Primary immunodeficiency](#)

Disease

- [Agammaglobulinemia](#)
- [Asthma](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Diseases](#)
- [HIV Infections](#)
- [Immunologic Deficiency Syndromes](#)
- [Lymphoproliferative Disorders](#)
- [Myelodysplastic Syndromes](#)
- [Severe Combined Immunodeficiency](#)