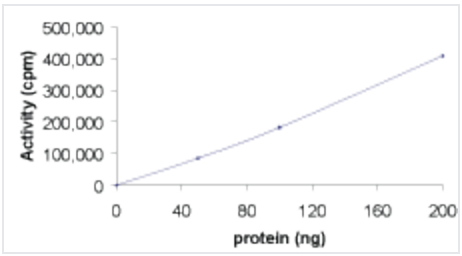
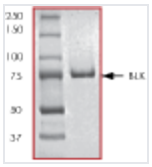
BLK Recombinant Protein

PRODUCT OVERVIEW

Product Name	BLK, Recombinant Protein
Full Product Name	BLK, Active
Product Gene Name	BLK recombinant protein
Product Synonym Names	MGC10442
Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Molecular Weight	57,706 Da
Tag	GST
Species	Human
Dry Ice Shipment	Extra charge fee may add to your shipping cost as dry ice is required to ship this product.
Product Categories/Family for BLK recombinant protein	Protein Kinases; Apoptosis/Autophagy; Cancer; Cytoplasmic Tyrosine Kinases; Inflammation
Applications Tested/Suitable for BLK recombinant protein	Kinase Assay, Western Blot (WB)
Related Product Information for BLK recombinant protein	Recombinant full-length human BLK was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is BC007371. BLK, also known as B lymphoid kinase, is a 55 kd tyrosine kinases with a SH3, SH2 and catalytic domains that contain consensus sequences of the src protein tyrosine kinase family. BLK is expressed specifically in the B cell lineage and plays a role in signal transduction pathway that is restricted to B lymphoid cells (1). Stimulation of resting B-lymphocytes with antibodies to surface immunoglobulin (sIgD or sIgM) induces activation of BLK (2).
Product References and Citations for BLK recombinant protein	1. Dymecki, SM. et al: Specific expression of a tyrosine kinase gene, blk, in B lymphoid cells. Science. 1990 Jan 19;247(4940):332-6. 2. Burkhardt, AL. et al: Anti-immunoglobulin stimulation of B lymphocytes activates src-related protein-tyrosine kinases. Proc Natl Acad Sci U S A. 1991 Aug 15;88(16):7410-4.
Other Notes	Small volumes of BLK recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for BLK purchase	MBS516587 is a recombinant protein targeting BLK. Also known as BLK, Active. Host: Sf9 insect cells.



Activity of BLK recombinant protein
Specific Activity: Sample Kinase Activity Plot. For specific information on a given lot, see related technical data sheet.



SDS-Page of BLK recombinant protein
Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BLK. It may not necessarily be applicable to this product.

NCBI GI #	33988212
NCBI GeneID	640
NCBI Accession #	BC007371
UniProt Secondary Accession #	Q16291; Q96IN1
UniProt Related Accession #	P51451
NCBI Official Full Name	Homo sapiens B lymphoid tyrosine kinase, mRNA
NCBI Official Synonym Full Names	BLK proto-oncogene, Src family tyrosine kinase
NCBI Official Symbol	BLK
NCBI Official Synonym Symbols	MODY11
Protein Family	Tyrosine-protein kinase
NCBI Protein Information	tyrosine-protein kinase Blk
NCBI Summary for BLK	This gene encodes a nonreceptor tyrosine-kinase of the src family of proto-oncogenes that are typically involved in cell proliferation and differentiation. The protein has a role in B-cell receptor signaling and B-cell development. The protein also stimulates insulin synthesis and secretion in response to glucose and enhances the expression of several pancreatic beta-cell transcription factors. [provided by RefSeq, Aug 2010]
Research Articles on BLK	**1.** Report a novel BLK gene variant in common variable immunodeficiency-patients that causes suppressed B-cell proliferation and reduced ability of B-cells to elicit antigen-specific CD4(+) T-cell responses.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/recombinant-protein/blk/516587