

Recombinant human Blk protein

Catalog Number: ATGP1223

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

1-505aa

UniProt No.

P51451

NCBI Accession No.

NP_001706

Alternative Names

Tyrosine-protein kinase Blk, MGC10442, MODY11

PRODUCT SPECIFICATION

Molecular Weight

59.8 kDa (525aa)

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 50% glycerol, 0.25M NaCl, 5mM DTT, 0.1mM PMSF, 0.1mM EDTA

Purity

> 80% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

BLK, also known as B lymphoid kinase, is a 55kDa tyrosine kinase with SH3, SH2, and catalytic domains that contain consensus sequences of the Src protein tyrosine kinase family. This protein is expressed specifically in the B cell lineage and plays a role in the signaltransduction pathway that is restricted to B lymphoid cells.

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Recombinant human BLK protein was expressed with N-terminal His-tag in High-Five cells using baculovirus expression system and purified by using conventional chromatography techniques.

Amino acid Sequence

<MGSSHHHHH SSGLVPRGSH> MGLVSSKKPD KEKPIKEKDK GQWSPLKUSA QDKDAPPLPP LVVFNHLTPP
PPDEHLDEDK HFVVALYDYT AMNDRDLQML KGEKLQVLKG TGDWWLARS LVTGREGYVPS NFVARVESLE
MERWFFRSQG RKEAERQLLA PINKAGSFLI RESETNKGAF SLSVKDVTQ GELIKHYKIR CLDEGGYYIS PRITFPSLQA
LVQHYSKKGD GLCQRLTLP VVPAPQNPWA QDEWEIPRQS LRLVRKLGSG QFGEVWMGY KNNMKVAIKT LKEGTMSPEA
FLGEANVMKA LQHERLVRLY AVVTKEPIYI VTEYMARGCL LDFLKTDEGS RLSLPR LIDM SAQIAEGMAY IERMNSIHRD
LRAANILVSE ALCKKIADFG LARIIDSEYT AQEGAKFPIK WTAPEAIHFG VFTIKADVWS FGVLLMEVVT YGRVPYPGMS
NPEVIRNLER GYRMPRPDTC PPELYRGVIA ECWRSRPEER PTFEFLQSVL EDFYTATERQ YELQP

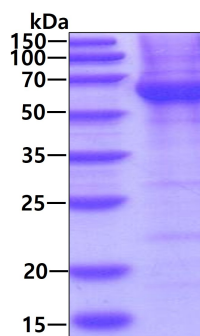
General References

Dymecki. et al. (1990) Science. 247:332-6.

Tatosyan, A.G. et al. (2000) Biochemistry. 65:49-58

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.