

# Recombinant Human BLK Protein (His Tag)

Catalog Number:PKSH032011



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

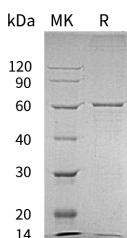
## Description

<b>Synonyms</b>	Tyrosine-Protein Kinase Blk;B Lymphocyte Kinase;p55-Blk;BLK;MODY11
<b>Species</b>	Human
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Gly2-Pro505
<b>Accession</b>	P51451
<b>Calculated Molecular Weight</b>	58.7 kDa
<b>Observed molecular weight</b>	50-65 kDa
<b>Tag</b>	C-His

## Properties

<b>Purity</b>	> 85 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per $\mu$ g of the protein as determined by the LAL method.
<b>Storage</b>	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
<b>Shipping</b>	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C.
<b>Formulation</b>	Supplied as a 0.2 $\mu$ m filtered solution of 20mM Tris-HCl, 500mM NaCl, 1mM DTT, pH 7.4.
<b>Reconstitution</b>	Not Applicable

## Data



> 85 % as determined by reducing SDS-PAGE.

## Background

Tyrosine-Protein Kinase Blk (BLK) contains one protein kinase domain, one SH2 domain and one SH3 domain. BLK is a non-receptor tyrosine kinase, which is involved in B-lymphocyte development, differentiation and signaling. B-cell receptor (BCR) signaling requires a tight regulation of several protein tyrosine kinases and phosphatases, and associated coreceptors. Signaling through BLK plays an important role in transmitting signals through surface immunoglobulines and supports the pro-B to pre-B transition, as well as the signaling for growth arrest and apoptosis downstream of B-cell receptor. Defects in BLK are a cause of maturity-onset diabetes of the young type 11 (MODY11).

## For Research Use Only

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