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**Product Data Sheet**


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Product Name: BLK Human  
 Cat. No.: GP22426  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

Synonyms Tyrosine-protein kinase Blk; B lymphocyte kinase; p55-Blk; BLK; MODY11; MGC10442.

Amino Acid Sequence  
 MGSSHHHHH SSGLVPRGSH MGLVSSKKPD KEKPIKEKDK GQWSPLKVSA  
 QDKDAPPLPP LVVFNHLTPP PPDEHLDEDK HFVVALYDYT AMNDRDLQML  
 KGEKLQVLKG TGDWWLARSL VTGREGYVPS NFVARVESLE MERWFFRSQG  
 RKEAERQLLA PINKAGSFLI RESETNKGAFSLSVKDVTTQ GELIKHYKIR  
 CLDEGGYYIS PRITFPSLQA LVQHYSKKGD GLCQRLTLPC VRPAPQNPWA  
 QDEWEIPRQS LRLVRKLGSG QFGEVWMGY KNNMKVAIKT LKEGTMSPEA  
 FLGEANVMKA LQHERLVRLY AVVTKEPIYI VTEYMARGCL LDFLKTDEGS  
 RLSLPRLIDM SAQIAEGMAY IERMNSIHRD LRAANILVSE ALCKIADFG  
 LARIIDSEYT AQEGAKFPIK WTAPEAIHFG VFTIKADVWS FGVLLMEVVT  
 YGRVPYPGMS NPEVIRNLER GYRMPRPDTC PPELYRGVIA ECWRSRPEER  
 PTFEFLQSVL EDFYTATERQ YELQP.

Formulation BLK protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 30% glycerol, 0.1M NaCl, 1mM DTT and 0.1mM PMSF.

**Introduction**

B lymphoid kinase (BLK) is a 55kDa tyrosine kinase with SH3, SH2, and catalytic domains which contain consensus sequences of the Src protein tyrosine kinase family. BLK is a nonreceptor tyrosine-kinase belonging to the src family of proto-oncogenes which are typically involved in cell proliferation and differentiation. The BLK protein is expressed specifically in the B cell lineage and has a role in the signal-transduction pathway which is restricted to B lymphoid cells. In addition, BLK stimulates ins. synthesis and secretion in response to glucose and increases the expression of several pancreatic beta-cell transcription factors.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

BLK Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 525 amino acids (1-505 a.a.) and having a molecular mass of 59.8kDa. BLK is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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