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BLK Human

Catalog #:PKPS-278

For research use only.

Description: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.

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

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MGLVSSKKPD KEKPIKEKDK GQWSPLKVSA QDKDAPPLPP LVVFNHLTPP PPDEHLDEDK HFVVALYDYT AMNDRDLQML KGEKLQVLKG TGDWWLARSL VTGREGYVPS NFVARVESLE MERWFFRSQG RKEAERQLLA PINKAGSFLI RESETNKGAFSLSVKDVTTQ GELIKHYKIR CLDEGGYYIS PRITFPSLQA LVQHYSKKGD GLC

Purity: Greater than 80.0% as determined by SDS-PAGE.

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.

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.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

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 insulin synthesis and secretion in response to glucose and increases the expression of several pancreatic beta-cell transcription factors.

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