

BLK Protein, Human (sf9, GST)

Cat. No.: HY-P72853

Synonyms: Tyrosine-protein kinase Blk; B lymphocyte kinase; p55-Blk; BLK

Species:

Source: Sf9 insect cells Accession: P51451 (M1-P505)

Gene ID: 640

Molecular Weight: Approximately 84 kDa

PROPERTIES

AA Sequence	MGLVSSKKPD KEKPIKEKDK GQWSPLKVSA QDKDAPPLPP LVVFNHLTPP PPDEHLDEDK HFVVALYDYT AMNDRDLQML KGEKLQVLKG TGDWWLARSL VTGREGYVPS NFVARVESLE MERWFFRSQG RKEAERQLLA PINKAGSFLI RESETNKGAF SLSVKDVTTQ GELIKHYKIR CLDEGGYYIS PRITFPSLQA LVQHYSKKGD GLCQRLTLPC VRPAPQNPWA QDEWEIPRQS LRLVRKLGSG QFGEVWMGYY KNNMKVAIKT LKEGTMSPEA FLGEANVMKA LQHERLVRLY AVVTKEPIYI VTEYMARGCL LDFLKTDEGS RLSLPRLIDM SAQIAEGMAY IERMNSIHRD LRAANILVSE ALCCKIADFG LARIIDSEYT AQEGAKFPIK WTAPEAIHFG VFTIKADVWS FGVLLMEVVT YGRVPYPGMS NPEVIRNLER GYRMPRPDTC PPELYRGVIA ECWRSRPEER
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 μm filtered solution of 20 mM Tris, 500 mM NaCl, 5 mM GSH, pH 7.4
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

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DESCRIPTION

Background

BLK Protein, a non-receptor tyrosine kinase, plays a vital role in B-lymphocyte development, differentiation, and signaling. Critical for B-cell receptor (BCR) signaling, BLK regulates the pro-B to pre-B transition, growth arrest, and apoptosis downstream of the B-cell receptor. It specifically binds and phosphorylates CD79A and CD79B, essential components of the BCR complex. In conjunction with FYN and LYN, BLK contributes to pre-B-cell receptor-mediated NF-kappa-B activation and indirectly stimulates BTK intramolecular autophosphorylation. Additionally, in pancreatic islets, BLK modulates beta-cell function, promoting insulin secretion in response to glucose by up-regulating PDX1 and NKX6-1. Furthermore, BLK phosphorylates CGAS, influencing its subcellular localization and function.

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

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