

Recombinant Human BLK, His-tagged

Cat. No. BLK-26112TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human BLK with an N terminal His tag 59.8 kDa.
Species	Human
Source	Hi-5 Insect Cells
ProteinLength	505 amino acids
Description	This gene encodes a nonreceptor tyrosine-kinase of the src family of proto-oncogenes that are typically involved in cell proliferation and differentiation. The protein has a role in B-cell receptor signaling and B-cell development. The protein also stimulates insulin synthesis and secretion in response to glucose and enhances the expression of several pancreatic beta-cell transcription factors.
Conjugation	HIS
Molecular Weight	59.800kDa inclusive of tags
Tissue specificity	Expressed in lymphatic organs, pancreatic islets, Leydig cells, striate ducts of salivary glands and hair follicles.
Form	Liquid
Purity	by SDS-PAGE

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Storage buffer	pH: 8.00 Constituents: 0.32% Tris HCl, 30% Glycerol, 0.58% Sodium chloride, 0.02% DTT, 0.002% PMSF
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHHSSGLVPRGSHMGLVSSKKPDKEKPIKEKDKGQWSPLKVSAQDKDA PPLPPLVVFNHLTPPPDEHLDEDKHFVVALYDYTAMNDRDLQMLKGEKLQVLKGT GDWWLARS�VTGREGYVPSNFVARVESLEMERWFFRSQGRKEAERQLLAPINKAG SFLIRESETNKGAFSLSVKDVTQTQELIKHYKIRCLDEGGYYISPRITFPSLQALVQHY SKKGDGLCQRLTLPCVRPAPQNPWAQDEWEIPRQSLRLVRKLGSGQFGEVWMGY YKNNMKVAIKTLKEGTMSPEAFLGEANVMKALQHERLVRLYAVVTKEPIYIVTEYMA RGCLLDFLKTDEGSRLSLPRLIDMSAQIAEGMAYIERMNSIHRDLRAANILVSEALCC KIADFGRLARIIDSEYTAQEGAKFPIKWTAPETAIHFGVFTIKADVWSFGVLLMEVVITYGR VPYPGMSNPEVIRNLERGYRMPRPDTCPELYRGVIAECWRSRPEERPTFEFLQSV LEDFTATERQYELQP
Sequence Similarities	Belongs to the protein kinase superfamily. Tyr protein kinase family. SRC subfamily. Contains 1 protein kinase domain. Contains 1 SH2 domain. Contains 1 SH3 domain.
GENE INFORMATION	
Gene Name	BLK B lymphoid tyrosine kinase [Homo sapiens]
Official Symbol	BLK
Synonyms	BLK; B lymphoid tyrosine kinase; tyrosine-protein kinase Blk; MGC10442;
Gene ID	640

mRNA Refseq	NM_001715
Protein Refseq	NP_001706
MIM	191305
Uniprot ID	P51451
Chromosome Location	8p23-p22
Pathway	Alpha-synuclein signaling, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; CXCR4-mediated signaling events, organism-specific biosystem; Class I PI3K signaling events, organism-specific biosystem; EPHA forward signaling, organism-specific biosystem;
Function	ATP binding; non-membrane spanning protein tyrosine kinase activity; nucleotide binding; protein tyrosine kinase activity;

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