

Recombinant Human CHKB

Cat. No. CHKB-26715TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human CHKL with a N terminal proprietary tag; Predicted MWt 69.52 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	395 amino acids
Description	Choline kinase (CK) and ethanolamine kinase (EK) catalyze the phosphorylation of choline/ethanolamine to phosphocholine/phosphoethanolamine. This is the first enzyme in the biosynthesis of phosphatidylcholine/phosphatidylethanolamine in all animal cells. The highly purified CKs from mammalian sources and their recombinant gene products have been shown to have EK activity also, indicating that both activities reside on the same protein. The choline kinase-like protein encoded by CHKL belongs to the choline/ethanolamine kinase family; however, its exact function is not known. Read-through transcripts are expressed from this locus that include exons from the downstream CPT1B locus.
Molecular Weight	69.520kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.3% Glutathione
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MAAEATAVAGSGAVGGCLAKDGLQQSKCPDTPKRRRASS LSRDAERRAYQWCR EYLGGAWRRVQPEELRVYPVSGGLSN LLFRCSLPDHLPVGEEPREVLLRLYGAIL QGVDSLVLLES VMFAILAERSLGPQLYGVFPEGRLEQYIPSRPLKTQELRE PVLAAI ATKMAQFHGMEMPFTKEPHWLFGMTERYLKQIQ DLPPTGLPEMNLLEMYSLKDEM GNLRKLLSTPSPVVFCH NDIQEGNILLSEPENADSLMLVDFEYSSYNYRGFDIGN H FCEWVYDYTHEEWPFIYKARPTDYPTQEQLHFIRHYLAEA KKGETLSQEEQRKL EEDLLVEVSRYALASHFFWGLWSILQ ASMSTIEFGYLDYAQSRFQFYFQQKGQLTS VHSSS
Sequence Similarities	Belongs to the choline/ethanolamine kinase family.

GENE INFORMATION

Gene Name	CHKB choline kinase beta [Homo sapiens]
Official Symbol	CHKB
Synonyms	CHKB; choline kinase beta; CHKL, choline kinase like; choline/ethanolamine kinase; CHETK;
Gene ID	1120
mRNA Refseq	NM_005198
Protein Refseq	NP_005189

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MIM	612395
Uniprot ID	Q9Y259
Chromosome Location	22q13.33
Pathway	AMPK signaling, organism-specific biosystem; Fatty Acid Beta Oxidation, organism-specific biosystem; Glycerophospholipid metabolism, organism-specific biosystem; Glycerophospholipid metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem;
Function	ATP binding; choline kinase activity; ethanolamine kinase activity; nucleotide binding;

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