

Product datasheet for PH310253

CHKL (CHKB) (NM_005198) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CHKB MS Standard C13 and N15-labeled recombinant protein (NP_005189)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC210253
Predicted MW:	45.1 kDa
Protein Sequence:	>RC210253 representing NM_005198 Red=Cloning site Green=Tags(s)

MAEATAVAGSGAVGGCLAKDGLQQSKCPDTPKRRRASSLSRDAERRAYQWCREYLGGAWRRVQPEELR
YYPVSGGLSNLLFRCSLPDHLPSVGEEPREVLLRLYGAILQGVDSLVLSEVMFAILAERSLGPQLYGVFP
EGRLEQYIPSRPLKTQELREPVLSAAIATKMAQFHGMEMPFTKEPHWLFMTMERYLKQIQDLPTGLPEM
NLLEMYSLKDEMGNLRLKLESTPSPVVFCHNDIQEGNILLSEPENADSLMLVDFEYSSYNYRGFDIGNH
FCEWVYDYTHEEWPYKARPTDYPTQEQLHFIRHYLAEAKKGETLSQEEQRKLEEDLLVEVSRYALASH
FFWGLWSILQASMSTIEFGYLDYAQSRFQFYFQQKQQLTSVHSSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_005189</u>
RefSeq Size:	1595
RefSeq ORF:	1185
Synonyms:	CHETK; CHKL; CK; CKB; CKEKB; EK; EKB; MDCMC
Locus ID:	1120



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UniProt ID: [Q9Y259](#), [A0A024R4X4](#)

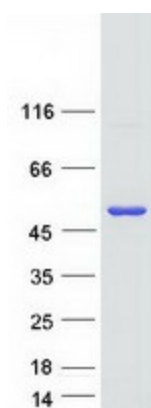
Cytogenetics: 22q13.33

Summary: 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. [provided by RefSeq, Jun 2009]

Protein Families: Druggable Genome

Protein Pathways: Glycerophospholipid metabolism, Metabolic pathways

Product images:



Coomassie blue staining of purified CHKB protein (Cat# [TP310253]). The protein was produced from HEK293T cells transfected with CHKB cDNA clone (Cat# [RC210253]) using MegaTran 2.0 (Cat# [TT210002]).