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# Product datasheet for PH322406

## CHKL (CHKB) (NM_152253) Human Mass Spec Standard

### Product data:

| | |
|---|---|
| **Product Type:** | Mass Spec Standards |
| **Description:** | CHKB MS Standard C13 and N15-labeled recombinant protein (NP_689466) |
| **Species:** | Human |
| **Expression Host:** | HEK293 |
| **Expression cDNA Clone or AA Sequence:** | RC222406 |
| **Predicted MW:** | 13.3 kDa |
| **Protein Sequence:** | >RC222406 representing NM_152253<br>Red=Cloning site Green=Tags(s)<br><br>MAAEATAVAGSGAVGGCLAKDGLQQSKCPDTTPKRRRASSLSRDAERRAYQWCREYLGGAWRRVQPEELR<br>VYPVRWEVRGQPLRCADRGQGSAAGPSGCSMFSPPSCARAWGGAGPAWPGGGRGRGR<br><br>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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-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:** | NP_689466 |
| **RefSeq Size:** | 4914 |
| **RefSeq ORF:** | 381 |
| **Synonyms:** | CHETK; CHKL; choline/ethanolamine kinase; choline kinase-like; choline kinase beta; CKEKB; EKB |
| **Locus ID:** | 1120 |
| **UniProt ID:** | Q9Y259 |

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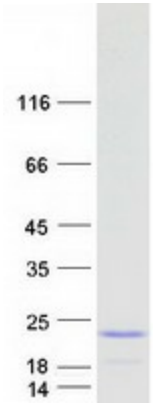
**Cytogenetics:** 22q13.33

**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# [TP322406]). The protein was produced from HEK293T cells transfected with CHKB cDNA clone (Cat# [RC222406]) using MegaTran 2.0 (Cat# [TT210002]).