

**CKMT1A, 40-417aa, Human, His tag, E.coli**

**Cat.NO.: TP01631**

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3th Edition

**Synonyms:** Creatine kinase U-type, mitochondrial, CKMT1; CKMT1B; UMTCK

**Description:** Mitochondrial creatine (MtCK) kinase is responsible for the transfer of high energy phosphate from mitochondria to the cytosolic carrier, creatine. It belongs to the creatine kinase isoenzyme family. It exists as two isoenzymes, sarcomeric MtCK and ubiquitous MtCK, encoded by separate genes.

**Form:** Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol

**Molecular Weight:** 45 kDa (403aa) confirmed by MALDI-TOF

**Sequences:**

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MGSSHHHHHSSGLVPRGSHMGSHMASERRRLYPPSAEYDPLRKHNNCMASHLTPAVYARLCDKTTPTGWTLD
QCIQTGVDNPGHPFIKTVGMVAGDEETYEVFADLFDPIQERHNGYDPRTMKHTTDL DASKIRSGYFDERYVLSSR
VRTGRSIRGLSLPPACTRAERREVERVVVDALSGLKGDLAGRYRRLSEMTEAEQQQLIDDHFLDKPVSPLLTAAG
MARDWPDARGIWHNNEKSFLI WVNEEDHTRVISMEKGGNMKRVFERFCRGLKEVERLIQERGWEFMWNERLGYI
LTCPSNLGTGLRAGVHIKLP LLSKDSRFPKILENLRLQKRG TGGVDTAATGGVFDISNLDRLGKSEVELVQLVIDGVN
YLIDCERRLERGQDIRIPTPVIHTKH
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**Purity:** > 95% by HPLC

**Concentration:** 1 mg/ml (determined by Bradford assay)

**Endotoxin Level:** <1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.