

## Creatine Kinase, Mitochondrial 1A Human Recombinant

<b>Item Number</b>	rAP-0905
<b>Synonyms</b>	Creatine kinase mitochondrial 1A, creatine kinase mitochondrial 1 (ubiquitous), creatine kinase U-type mitochondrial, Acidic-type mitochondrial creatine kinase, Ubiquitous mitochondrial creatine kinase, CKMT1, U-MtCK, mia-CK, EC 2.7.3, EC 2.7.3.2.
<b>Description</b>	CKMT1A Human Recombinant produced in E. coli is a single polypeptide chain containing 403 amino acids (40-417) and having a molecular mass of 45.0 kDa. CKMT1A is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.
<b>Uniprot Accession Number</b>	P12532
<b>Amino Acid Sequence</b>	MGSSHHHHH SSSLVPRGSH MGSMMASERR RLYPPSAEYP DLRKHNNCMA SHLTPAVYAR LCDKTTPTGW TLDQCIQTGV DNPQHPIKT VGMVAGDEET YEVFADLFDP VIQERHNGYD PRTMKHTTDL DASKIRSGYF DERYVLSSRV RTGRSIRGLS LPPACTRAER REVERVVVDA LSGLKGDLAG RYYRLSEMTE AEQQQLIDDH FLFDKPVSP LTAAGMARDW PDARGIWHNN EKSFLI- WVNE EDHTRVIME KGGNMKRVFE RFCRGLKEVE RLIQERGWEF MWNERLG YIL TCPSNLGTGL
<b>Source</b>	E.coli.
<b>Physical Appearance and Stability</b>	Sterile Filtered colorless solution. Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
<b>Formulation and Purity</b>	The CKMT1A solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl and 10% glycerol. Greater than 95% as determined by SDS-PAGE.
<b>Application</b>	
<b>Solubility</b>	
<b>Biological Activity</b>	
<b>Shipping Format and Condition</b>	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**