

CKMT2, 40-419aa, Human, His tag, E.coli

Cat.NO.: TP01632

3th Edition

Synonyms: Creatine kinase S-type, mitochondrial, SMTCK

Description: CKMT2, as known as SMTCK, belongs to the ATP:guanido phosphotransferase family. SMTCK is responsible for the transfer of high energy phosphate from mitochondria to the cytosolic carrier, creatine. This enzyme is reversibly catalyzes the transfer of phosphate between ATP and various phosphogens (e.g. creatine phosphate).

Form: Liquid. In 20 mM Tris-HCl buffer, pH8.0, 10% glycerol, 1mM DTT, 100mM NaCl

Molecular Weight: 46.1kDa (405aa) confirmed by MALDI-TOF

Sequences:

MGSSHHHHHHSSGLVPRGSHMGSHMEVREQPRLFPPSADYPDLRKHNNCMAECLTPAIYAKLRNKVTPNGYTLDD
QCIQTGVDNPGHPFIKTVGMVAGDEESYEVFADLFDPIKLRHNGYDPRVMKHTTDL DASKITGGQFDEHYVLSSR
VRTGRSIRGLSLPPACTRAERREVENVAITALEGLKGDLAGRYKLSSEMTEQDQQLIDDHFLFDKPVSPLLTCAGM
ARDWPDARGIWHNYDKTFLIWINEEDHTRVISMEKGGNMKRVFERFCRGLKEVERLIQERGWEFMWNERLG YILT
CPSNLGTGLRAGVHVRIKLSKDPFRFSKILENLRLQKRGTGGVD TAAVADVVDISNIDRIGRSEVELVQIVIDGVNYLV
DCEKKLERGQDIKVPPLPQFGKK

Purity: > 95% by HPLC

Concentration: 1mg/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.