

Recombinant Human CKMT1A Protein (Ser41-Ile250), His tagged

Cat. No. CKMT1A-2155H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CKMT1A (Ser41-Ile250) fused with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Ser41-Ile250
Description	CKMT1A belongs to the ATP: guanido phosphotransferase family. It contains 1 phosphagen kinase C-terminal domain and 1 phosphagen kinase N-terminal domain. CKMT1A gene is one of two genes which encode the ubiquitous mitochondrial creatine kinase (CKMT1). CKMT1 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 (CKMT2) and ubiquitous MtCK, encoded by separate genes. CKMT1 occurs in two different oligomeric forms: dimers and octamers, in contrast to the exclusively dimeric cytosolic creatine kinase isoenzymes. Ubiquitous mitochondrial creatine kinase has 8% homology with the coding exons of sarcomeric CKMT1.
Form	Lyophilized powder/frozen liquid
Molecular Mass	25.15 kDa

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Purity	>90% as determined by SDS-PAGE
Notes	For research use only.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	Supplied as solution form in PBS, pH 7.5 or lyophilized from PBS, pH 7.5.
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	They are shipped out with dry ice/blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	CKMT1A creatine kinase, mitochondrial 1A [Homo sapiens (human)]
Official Symbol	CKMT1A
Synonyms	CKMT1A; creatine kinase, mitochondrial 1A; CKMT1, creatine kinase, mitochondrial 1 (ubiquitous); creatine kinase U-type, mitochondrial; U-MtCK; mia-CK; ubiquitous mitochondrial creatine kinase; acidic-type mitochondrial creatine kinase; creatine kinase, mitochondrial 1 (ubiquitous); CKMT1; UMTCK; CKMT1B; FLJ50967;
Gene ID	548596
mRNA Refseq	NM_001015001
Protein Refseq	NP_001015001

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MIM	613415
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UniProt ID	P12532
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