

CKMT1A Protein, Human (sf9, His)

Cat. No.:	HY-P76264
Synonyms:	Creatine kinase U-type, mitochondrial; Mia-CK; U-MtCK; CKMT; CKMT1B
Species:	Human
Source:	Sf9 insect cells
Accession:	P12532 (A40-H417)
Gene ID:	1159
Molecular Weight:	Approximately 43 kDa.

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris, 500 mM NaCl, pH 8.5, 10% gly.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

DESCRIPTION

Background	The CKMT1A protein, a creatine kinase isoenzyme, is instrumental in reversibly catalyzing the transfer of phosphate between ATP and various phosphogens, notably creatine phosphate. This enzymatic activity holds significant importance in tissues with substantial and fluctuating energy demands, including skeletal muscle, heart, brain, and spermatozoa. Creatine kinase isoenzymes, including CKMT1A, play a central role in energy transduction, facilitating the efficient utilization and storage of energy in response to dynamic metabolic requirements in these tissues.
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Caution: Product has not been fully validated for medical applications. For research use only.

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