

Recombinant human Creatine kinase U-type, mitochondrial

Catalog No: #AP72093

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Package Size: #AP72093-1 20ug #AP72093-2 100ug #AP72093-3 1mg

Description

Product Name	Recombinant human Creatine kinase U-type, mitochondrial
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:40-417aaSequence Info:Full Length
Other Names	Acidic-type mitochondrial creatine kinase ;Mia-CKUbiquitous mitochondrial creatine kinase ;U-MtCK
Accession No.	P12532
Uniprot	P12532
GeneID	1159;548596;
Calculated MW	47.1 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	ASERRRLYPSSAEYPDLRKHNNCMASHLTPAVYARLCKDKTPTGWTLDDQCIQTGVDNPGHPFIKTVGMVAGD EETYEVFADLFDLPVIQERHNGYDPRMTMKHTTDL DASKIRSGYFDERYVLSRVRTGRSIRGLSLPPACTRAER REVERVVVDALSGLKGDLAGRYRYRLSEMTEAEQQQLIDDHFLFDKPVSPLLTAAGMARDWPDARGIWHNNEK SFLIWWNEEDHTRVISMEEKGGNMKRVFERFCRGLKEVERLIQERGWEFMWNERLGYILTCPSNLGTGLRAGV HIKPLLSKDSRFPKILENLR LQKRGTTGGVDTAATGGVFDISNLDRLGKSEVELVQLVIDGVNYLIDCERRLERG QDIRIPTPVIHTKH
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Reversibly catalyzes the transfer of phosphate between ATP and various phosphogens (e.g. creatine phosphate). Creatine kinase isoenzymes play a central role in energy transduction in tissues with large, fluctuating energy demands, such as skeletal muscle, heart, brain and spermatozoa.

References

Isolation and characterization of the gene and cDNA encoding human mitochondrial creatine kinase.Haas R.C., Korenfeld C., Zhang Z., Perryman B., Roman D., Strauss A.W.J. Biol. Chem. 264:2890-2897(1989)Research Topic:Signal Transduction

Note: This product is for in vitro research use only