

Product Data Sheet

Creatine kinase B-type/CKB Protein, Human (His)

Cat. No.:	HY-P7897			
Synonyms:	rHuCreatine kinase B-type/CKB , His; B-CK; CKB; Creatine Kinase BB			
Species:	Human			
Source:	E. coli			
Accession:	P12277 (M1-K381)			
Gene ID:	1152			
Molecular Weight:	Approximately 50.0 kDa			

PROPERTIES

/www.ocquence	MPFSNSHNAL	KLRFPAEDEF	PDLSAHNNHM	AKVLTPELYA		
	ELRAKSTPSG	FTLDDVIQTG	VDNPGHPYIM	TVGCVAGDEE		
	SYEVFKDLFD	PIIEDRHGGY	KPSDEHKTDL	NPDNLQGGDD		
	LDPNYVLSSR	VRTGRSIRGF	CLPPHCSRGE	RRAIEKLAVE		
	ALSSLDGDLA	GRYYALKSMT	EAEQQQLIDD	HFLFDKPVSP		
	LLLASGMARD	WPDARGIWHN	DNKTFLVWVN	EEDHLRVISM		
	QKGGNMKEVF	TRFCTGLTQI	ETLFKSKDYE	FMWNPHLGYI		
	LTCPSNLGTG	LRAGVHIKLP	NLGKHEKFSE	VLKRLRLQKR		
	GTGGVDTAAV	GGVFDVSNAD	RLGFSEVELV	QMVVDGVKLL		
	IEMEQRLEQG	QAIDDLMPAQ	K			
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-HCl, 150 mM NaCl, 10% Glycerol, pH 7.5.					
Endotoxin Level	<1 EU/µg, determined by LAL method.					
Reconsititution	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 f					
	extended storage. Avoid r	repeated freeze-thaw cycles.				
Shipping	Shipping with dry ice.					
FF0						

DESCRIPTION

Background Creatine kinase B (CKB) is indispensable for thermogenesis resulting from the futile creatine cycle, during which it traffics to

mitochondria using an internal mitochondrial targeting sequence. CKB is powerfully induced by thermogenic stimuli in both mouse and human adipocytes. Adipocyte-selective inactivation of Ckb in mice diminishes thermogenic capacity, increases predisposition to obesity, and disrupts glucose homeostasis. CKB is therefore a key effector of the futile creatine cycle^[1].

REFERENCES

[1]. Janane F Rahbani, et al. Creatine kinase B controls futile creatine cycling in thermogenic fat. Nature. 2021 Feb;590(7846):480-485.

Caution: Product has not been fully validated for medical applications. For research use only.

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