MYBPC3 Protein, Human (His-SUMO)

Cat. No.:	HY-P71532
Synonyms:	C protein cardiac muscle isoform; C-protein; cardiac muscle isoform; Cardiac MyBP C; Cardiac MyBP-C; Cardiac myosin binding protein C ; cardiac-type; CMH4; FHC; MYBP C; MYBPC; MYBPC3; Myosin binding protein C cardiac; Myosin binding protein C cardiac-type; Myosin-binding protein C; myosin-binding protein C cardiac type; MYPC3_HUMAN
Species:	Human
Source:	E. coli
Accession:	Q14896 (1M-328A)
Gene ID:	4607
Molecular Weight:	Approximately 50.8 kDa

PROPERTIES

AA Sequence	M P E P G K K P V S A F S K K P R S V E V A A G S P A V F E A E T E R A G V K V R W Q R G G S D I S A S N K Y G L A T E G T R H T L T V R E V G P A D Q G S Y A V I A G S S K V K F D L K V I E A E K A E P M L A P A P A P A E A T G A P G E A P A P A A E L G E S A P S P K G S S S A A L N G P T P G A P D D P I G L F V M R P Q D G E V T V G G S I T F S A R V A G A S L L K P P V V K W F K G K W V D L S S K V G Q H L Q L H D S Y D R A S K V Y L F E L H I T D A Q P A F T G S Y R C E V S T K D K F D C S N F N L T V H E A M G T G D L D L L S A F R R T S L A G G G R R I S D S H E D T G I L D F S S L L K K R D S F R T P R D S K L E A P A E E D V W E I L R Q A
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in PBS, 6% Trehalose, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	MYBPC3 Protein is a thick filament-associated protein situated in the crossbridge region of vertebrate striated muscle A bands. In vitro, it exhibits binding affinity for myosin heavy chain (MHC), F-actin, and native thin filaments, thereby influencing the activity of actin-activated myosin ATPase. Its role extends to potential modulation of muscle contraction,

	suggesting a functional impact on the contractile apparatus, or it may serve a structural role in the muscle fibers.

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