

Recombinant Human MYBPC3 protein, MYC/DDK-tagged

Cat. No. MYBPC3-19H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human MYBPC3 fused with MYC/DDK tag at C-terminal was expressed in HEK293.
Species	Human
Source	HEK293
Description	MYBPC3 encodes the cardiac isoform of myosin-binding protein C. Myosin-binding protein C is a myosin-associated protein found in the cross-bridge-bearing zone (C region) of A bands in striated muscle. MYBPC3, the cardiac isoform, is expressed exclusively in heart muscle. Regulatory phosphorylation of the cardiac isoform in vivo by cAMP-dependent protein kinase (PKA) upon adrenergic stimulation may be linked to modulation of cardiac contraction. Mutations in MYBPC3 are one cause of familial hypertrophic cardiomyopathy.
Form	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	140.6 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method

GENE INFORMATION

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Gene Name	MYBPC3 myosin binding protein C, cardiac [Homo sapiens]
Official Symbol	MYBPC3
Synonyms	MYBPC3; myosin binding protein C, cardiac; CMH4, myosin binding protein C, cardiac; myosin-binding protein C, cardiac-type; FHC; MYBP C; C-protein, cardiac muscle isoform; myosin-binding protein C, cardiac; CMH4; MYBP-C; DKFZp779E1762;
Gene ID	4607
mRNA Refseq	NM_000256
Protein Refseq	NP_000247
MIM	600958
UniProt ID	Q14896
Chromosome Location	11p11.2
Pathway	Dilated cardiomyopathy, organism-specific biosystem; Dilated cardiomyopathy, conserved biosystem; Hypertrophic cardiomyopathy (HCM), organism-specific biosystem; Hypertrophic cardiomyopathy (HCM), conserved biosystem; Muscle contraction, organism-specific biosystem; Striated Muscle Contraction, organism-specific biosystem; Striated Muscle Contraction, organism-specific biosystem;
Function	ATPase activator activity; actin binding; metal ion binding; myosin binding; myosin heavy chain binding; structural constituent of muscle; titin binding;

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