Recombinant Human MYBPC3 Protein, His-Tagged

Cat. No. MYBPC3-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MYBPC3 protein, His-tagged was expressed in E. coli cell
Species	Human
Source	E.coli
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 is expressed exclusively in heart muscle and is a key regulator of cardiac contraction. Mutations in this gene are a frequent cause of familial hypertrophic cardiomyopathy.
Applications	Western blotting, ELISA
AA Sequence	MKHHHHHHASMPEPGKKPVSAFSKKPRSVEVAAGSPAVFEAETERAGVKVRWQR GGSDISASNKYGLATEGTRHTLTVREVGPADQGSYAVIAGSSKVKFDLKVIEAEKAE PMLAPAPAPAEATGAPGEAPAPAAELGESAPSPKGSSSAALNGPTPGAPDDPIGLF VMRPQDGEVTVGGSITFSARVAGASLLKPPVVKWFKGKWVDLSSKVGQHLQLHDS YDRASKVYLFELHITDAQPAFTGSYRCEVSTKDKFDCSNFNLTVHEAMGTGDLDLLS AF
Endotoxin	< 1.0 EU/μg
Purity	Purity as determined by densitometric image analysis: > 95%

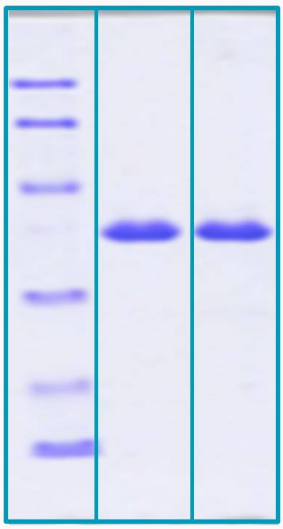
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Storage Buffer	Filtered (0.4 μm) and lyophilized in 20 mM Tris buffer, 50 mM NaCl, pH 7.5
Reconstitution	Add deionized water to prepare a working stock solution of approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely. Filter sterilize your culture media/working solutions containing this non-sterile product before using in cell culture.
Storage	Store the lyophilized protein at –80 °C. Lyophilized protein remains stable until the expiry date when stored at –80 °C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at –80 °C for long term storage. Reconstituted protein can be stored at 4 °C for a week.
Notes	This product is intended for research use only.
Molecular Mass	29.6 kDa (calculated)
Identity	LC-MS/MS

GENE INFORMATION

Gene Name	MYBPC3 myosin binding protein C3 [Homo sapiens (human)]
Official Symbol	MYBPC3
Synonyms	Cardiac MyBP-C, C-protein, cardiac muscle isoform, MYBPC3, Myosin Binding Protein-C3, cMyC
Gene ID	4607
mRNA Refseq	NM_000256.3

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Protein Refseq	NP_000247.2
UniProt ID	Q14896
MIM	600958
SDS-PAGE Gel	 14 % SDS-PAGE separation of Human MYBPC3: 1. M.W. marker – 14, 21, 31, 45, 66, 97 kDa 2. Reduced and boiled sample, 2.5 µg/lane 3. Non-reduced and non-boiled sample, 2.5 µg/lane

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