

MYOZ2 Protein, Human (His)

Cat. No.:	HY-P70919
Synonyms:	Myozenin-2; Calsarcin-1; FATZ-Related Protein 2; MYOZ2; C4orf5
Species:	Human
Source:	E. coli
Accession:	Q9NPC6 (M1-L264)
Gene ID:	51778
Molecular Weight:	Approximately 38.0 kDa

PROPERTIES

AA Sequence	<pre> M L S H N T M M K Q R K Q Q A T A I M K E V H G N D V D G M D L G K K V S I P R D I M L E E L S H L S N R G A R L F K M R Q R R S D K Y T F E N F Q Y Q S R A Q I N H S I A M Q N G K V D G S N L E G G S Q Q A P L T P P N T P D P R S P P N P D N I A P G Y S G P L K E I P P E K F N T T A V P K Y Y Q S P W E Q A I S N D P E L L E A L Y P K L F K P E G K A E L P D Y R S F N R V A T P F G G F E K A S R M V K F K V P D F E L L L L T D P R F M S F V N P L S G R R S F N R T P K G W I S E N I P I V I T T E P T D D T T V P E S E D L </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 10 mM Tris, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	<p>MYOZ2, a member of the Myozenin family, functions as an intracellular binding protein, facilitating the linkage of Z-line proteins such as alpha-actinin, gamma-filamin, TCAP/telethonin, and LDB3/ZASP, thereby contributing to the localization of calcineurin signaling within the sarcomere. This protein is pivotal in modulating calcineurin signaling, suggesting its involvement in the intricate regulatory mechanisms of muscle function. Additionally, MYOZ2 may play a crucial role in myofibrillogenesis. Through its C-terminus, MYOZ2 interacts with spectrin repeats 3 and 4 of ACTN2, and it engages in</p>
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interactions with other proteins, including ACTN1, LDB3, MYOT, and PPP3CA. These interactions highlight the significance of MYOZ2 in mediating molecular connections essential for the structural and signaling integrity of the sarcomere.

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

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