



Recombinant Protein Technical Manual  
Recombinant Human Myozenin-2/MYOZ2 Protein  
(His Tag)  
RPES5047

#### Product Data:

**Product SKU:** RPES5047

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** Q9NPC6

#### Protein Information:

**Molecular Mass:** 30.9 kDa

**AP Molecular Mass:** 38 kDa

**Tag:** C-6His

**Bio-activity:**

**Purity:** > 90 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of 10mM Tris, pH 8.0.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Myozenin-2; Calsarcin; FATZ-Related Protein 2; MYOZ2; C4orf5

## Immunogen Information:

**Sequence:** Met 1-Leu264

## Background:

Myozenin 2 (MYOZ2) is a 264 amino acid protein that belongs to the myozenin family. MYOZ2 binds to Calcineurin, a phosphatase that is involved in calcium-dependent signal transduction in diverse cell types. MYOZ2 is one of the sarcomeric proteins and plays an important role in myofibrillogenesis and the modulation of calcineurin signaling. It may serve as intracellular binding proteins involved in linking Z line proteins such as alpha-actinin, gamma-filamin, TCAP/telethonin, LDB3/ZASP and plays an important role in the modulation of calcineurin signaling. Defects in MYOZ2 are the cause of familial hypertrophic cardiomyopathy type 16 (CMH16), a hereditary heart disorder.