

Human Calmodulin 2 / CALM2 Protein (His Tag)

Catalog Number: 12435-H07E



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

caM; CAMII; LQT15; PHKD; PHKD2

Protein Construction:

A DNA sequence encoding the mature form of human CALM2 (P0DP24) (Met1-Lys149) was expressed with a polyhistidine tag at the N-terminus.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 85 % as determined by SDS-PAGE

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: His

Molecular Mass:

The recombinant human CALM2 consists of 164 amino acids and predicts a molecular mass of 18.7 KDa. It migrates as an approximately 19-22 KDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

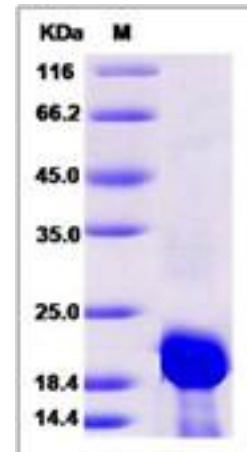
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Calmodulin 2, also known as CALM2, is a calmodulin. Calmodulin 2 mediates the control of a large number of enzymes, ion channels and other proteins by Ca(2+). It is involved in a genetic pathway that regulates the centrosome cycle and progression through cytokinesis. Calmodulin 2 gene may be a genetic determinant of hip osteoarthritis (OA). OA is a degenerative disease characterized by gradual loss of articular cartilage and is a leading cause of disability in elderly populations. CALM2 was most abundantly expressed in articular chondrocytes and OA cartilage.

References

- 1.Egli R, *et al.* (1993) Localization of the human bona fide calmodulin genes CALM1, CALM2, and CALM3 to chromosomes 14q24-q31, 2p21.1-p21.3, and 19q13.2-q13.3. *Genomics*. 16(2): 461-5.
- 2.Mikiko, *et al.* (2002) Centrosomal proteins CG-NAP and kendrin provide microtubule nucleation sites by anchoring gamma-tubulin ring complex. *Mol Biol Cell*. 13(9):3235-45.
- 3.SenGupta B, *et al.* (1987) Molecular analysis of human and rat calmodulin complementary DNA clones. Evidence for additional active genes in these species. *J Biol Chem*. 262(34): 16663-70.

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