

Native Bovine Calmodulin

Cat. No. CALM-01B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Calcium-binding native bovine CALM protein purified from testes.
Species	Bovine
Source	Testes
Description	Calmodulin is a bioactive protein isolated from bovine testes. The material is derived from individually marked animals born and raised in Sweden, a country where BSE has not been a problem. Calmodulin is a calcium-binding protein expressed in many eukaryotic cells. By binding to and regulating various protein targets, it affects cellular processes such as metabolism, nerve growth, apoptosis, inflammation, muscle contraction and memory. Calmodulin is used by many proteins as a calcium sensor and signal transducer, as the proteins themselves are not able to bind calcium. The molecule can bind a maximum of four calcium ions and by undergoing post-translational modifications such as acetylation, phosphorylation, proteolytic cleavage and methylation, its functions can potentially be altered.
Form	Lyophilized white powder or flocculate
Applications	1. Protein calcium-binding studies on the regulation of a multitude of different protein targets 2. Activation of cyclic nucleotide-dependent phosphodiesterase 3. Co-factor/activator for kinase studies 4. Studies of edema factor toxin and anthrax bacteria
Notes	For laboratory use only.

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Storage

Stable for at least 5 years from production date when stored at -20 centigrade. May be shipped at ambient temperature. After reconstitution in PBS pH 7.4, the solution may be stored frozen in working aliquots for up to 12 months. Repeated freezing and thawing is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use.

Storage Buffer

50 mM NH₄HCO₃ with 10 µM CaCl₂. No preservatives are added.

GENE INFORMATION

Gene Name

CALM calmodulin-like [*Bos taurus* (domestic cattle)]

Official Symbol

CALM

Synonyms

CALM; calmodulin-like; CALM2; calmodulin; caM; calmodulin 2 (phosphorylase kinase, delta); EC 2.7.11.19

Gene ID

326597

mRNA Refseq

NM_001166508

Protein Refseq

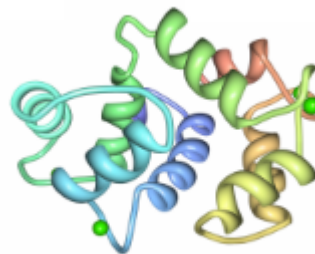
NP_001159980

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**Crystal structure of
bovine Ca²⁺
calmodulin**



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