

Recombinant Human Calmodulin3, GST-tagged

Cat. No. CALM3-91H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The recombinant human Calmodulin3 (53 a.a.-149 a.a.), fused with an N-terminal GST tag, was expressed in Wheat germ in vitro.
Species	Human
Source	Wheat Germ
ProteinLength	53-149 a.a.
Description	Calmodulin mediates the control of a large number of enzymes and other proteins by Ca ²⁺ . Among the enzymes to be stimulated by the calmodulin-Ca ²⁺ complex are a number of protein kinases and phosphatases. Together with CEP110 and centrin, is involved in a genetic pathway that regulates the centrosome cycle and progression through cytokinesis.
AA Sequence	INEVDADGNGTIDFPEFLTMMARKMKDTDSEEEIREAFRVFDKDGNGYISAAELRHV MTNLGEKLTDEEVDEMIREADIDGDGQVNYEEFVQMMTAK
Molecular weight	36.41kDa
Formulation	Liquid, in the elution buffer (50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0)
Stability	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Purification	H

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nullValue_other

Function

N-terminal myristoylation domain binding; calcium ion binding; calcium-dependent protein binding; phosphatidylinositol 3-kinase binding; phospholipase binding; protein domain specific binding; thioesterase binding; titin binding; protein binding

GENE INFORMATION

Gene Name	CALM3 calmodulin 3 (phosphorylase kinase, delta) [Homo sapiens]
Official Symbol	CALM3
Synonyms	CALM3; PHKD; PHKD3; calmodulin 3 (phosphorylase kinase, delta); calmodulin; caM
Gene ID	808
mRNA Refseq	NM_005184
Protein Refseq	NP_005175
MIM	114183
UniProt ID	P62158
Chromosome Location	19q13.2-q13.3
Pathway	Activation of Ca-permeable Kainate Receptor; Activation of CaMK IV; Activation of Kainate Receptors upon glutamate binding; Activation of NMDA receptor upon glutamate binding and postsynaptic events; Adaptive Immune System; Alcoholism; Alzheimer's disease; Amphetamine addiction; BCR signaling pathway

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