

## Product datasheet for PH304372

### CALML5 (NM\_017422) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	CALML5 MS Standard C13 and N15-labeled recombinant protein (NP_059118)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC204372
Predicted MW:	15.9 kDa
Protein Sequence:	>RC204372 protein sequence Red=Cloning site Green=Tags(s)  MAGELTPEEEAQYKKAFAVDTDNGTINAQELGAALKATGKNLSEAQLRKLISEVDGDGDGEISFQEFL TAARKARAGLEDLQVAFRAFDQDGDGHITVDELRRAMAGLGQPLPQEELDAMIREADVDDQGRVNYEEFA RMLAQE  TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_059118</a>
RefSeq Size:	893
RefSeq ORF:	438
Synonyms:	CLSP
Locus ID:	51806
UniProt ID:	<a href="#">Q9NZT1</a> , <a href="#">Q53H37</a>



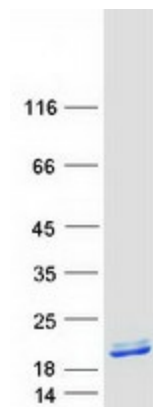
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**Cytogenetics:** 10p15.1

**Summary:** This gene encodes a novel calcium binding protein expressed in the epidermis and related to the calmodulin family of calcium binding proteins. Functional studies with recombinant protein demonstrate it does bind calcium and undergoes a conformational change when it does so. Abundant expression is detected only in reconstructed epidermis and is restricted to differentiating keratinocytes. In addition, it can associate with transglutaminase 3, shown to be a key enzyme in the terminal differentiation of keratinocytes. [provided by RefSeq, Jul 2008]

**Protein Pathways:** Alzheimer's disease, Calcium signaling pathway, Glioma, GnRH signaling pathway, Insulin signaling pathway, Long-term potentiation, Melanogenesis, Neurotrophin signaling pathway, Olfactory transduction, Oocyte meiosis, Phosphatidylinositol signaling system, Vascular smooth muscle contraction

**Product images:**



Coomassie blue staining of purified CALML5 protein (Cat# [TP304372]). The protein was produced from HEK293T cells transfected with CALML5 cDNA clone (Cat# [RC204372]) using MegaTran 2.0 (Cat# [TT210002]).