

## PICALM Recombinant Protein, Human (HEK293, C-His)

Cat. No.:	HY-P701135
Synonyms:	CALM; CLTH; LAP
Species:	Human
Source:	HEK293
Accession:	Q13492/NP_009097 (M1-M652)
Gene ID:	8301
Molecular Weight:	Approximately 90-150 kDa

### PROPERTIES

#### AA Sequence

MSGQSLTDRI	TAAQHSVTGS	AVSKTVCKAT	THEIMGPKKK
HLDYLIQCTN	EMNVNIPQLA	DSLFERTTNS	SWVVVFKSLI
TTHHLMVYGN	ERFIQYLASR	NTLFNLSNFL	DKSGLQGYDM
STFIRRYSRY	LNEKAVSYRQ	VAFDFTKVKR	GADGVMRTMN
TEKLLKTVP I	IQNQMDALLD	FNVNSNELTN	GVINA AFMLL
FKDAIRLFAA	YNEGIINLLE	KYFDMKKNQC	KEGLDIYKKF
LTRMTRISEF	LKVAEQVGID	RGDIPDLSQA	PSSLLDALEQ
HLASLEGKKI	KDSTAASRAT	TLSSNAVSSLA	STGLSLTKVD
EREKQAAL EE	EQARLKALKE	QRLKELAKKP	HTSLTTAASP
VSTSAGGIMT	APAIDIFSTP	SSSNSTSKLP	NDLLDLQQPT
FHPSVHPMST	ASQVASTWGD	PFSATVDAVD	DAIPSLNPF L
TKSSGDVHLS	ISSDVSTFTT	RTPTHEMFVG	FTPSPVAQPH
PSAGLNVD FE	SVFGNKSTNV	IVDSGGFDEL	GGLLKPTVAS
QNQNLPVAKL	PPSKLVSDDL	DSSLANLVGN	LGIGNGTTKN
DVNWSQPGEK	KLTGGSNWQP	KVAPTTAWNA	ATMAPPVMAY
PATTP TGMIG	YGIPPMGGSV	PVMTQPTLIY	SQPVMRPPNP
FGPVS GAQIQ	FM		

**Appearance** Solution.

**Formulation** Supplied as a 0.2 µm filtered solution of 25 mM Tris-HCl, 10% glycerol, pH 7.3.

**Endotoxin Level** <1 EU/µg, determined by LAL method.

**Reconstitution** N/A.

**Storage & Stability** Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.

**Shipping** Shipping with dry ice.

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## DESCRIPTION

### Background

The PICALM gene encodes a clathrin assembly protein crucial for recruiting clathrin and adaptor protein complex 2 (AP2) to cell membranes during coated-pit formation and clathrin-vesicle assembly. Its role may extend to regulating the size of the clathrin cage, thus determining the amount of membrane to be recycled. This protein is implicated in AP2-dependent clathrin-mediated endocytosis, particularly at the neuromuscular junction. Notably, chromosomal translocation involving this gene is associated with various hematological malignancies. Additionally, polymorphisms in this gene are linked to Alzheimer's disease risk. The gene exhibits ubiquitous expression, with notable levels observed in fat, appendix, and 25 other tissues. Multiple alternatively spliced transcript variants encoding different isoforms have been identified.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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