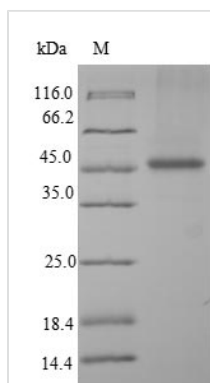




Recombinant Human Paralemmin-1 (PALM)

Product Code	CSB-EP017413HU
Relevance	Involved in plasma membrane dynamics and cell process formation. Isoform 1 and isoform 2 are necessary for axonal and dendritic filopodia induction, for dendritic spine maturation and synapse formation in a palmitoylation-dependent manner.
Abbreviation	Recombinant Human PALM protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	O75781
Alias	Paralemmin
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MEVLAAETTSQQERLQAI AEKRRQAEIENKRRQLEDERRQLQHLKSKALRER WLLEGTPSSASEGDEDLRRQMDDDEQKTRLLEDSVSRLEKEIEVLERGDSAP ATAKENAAAPSPVRAPAPSPAKEERKTEVVMNSQQTPVGTPKDKRVSNTPLR TVDGSPMMKAAMYSVEITVEKDKVTGETRVLSTTLLPRQPLPLGIKVEDETK VVHAVDGTAEINGIHLSSSEVDELIHKADEVTLSEAGSTAGAAETRGAVEGAA RTTPSRREITGVQAQPGEATSGPPGIQPGQEPPVTMIFMGYQNVEDEAETKK VLGLQDTITAE LVVIEDAAEPKEPAPPNGSAAEPPTAAASREENQAGPEATTSD PQDLDMKKHRCKCC
Research Area	Neuroscience
Source	E.coli
Target Names	PALM
Protein Names	Recommended name: Paralemmin-1 Alternative name(s): Paralemmin
Expression Region	1-384aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	45.7kDa
Protein Length	Full Length
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The recombinant Human PALM was expressed with the amino acid range of 1-384. This PALM protein is expected to have a theoretical molecular weight of 45.7 kDa. Expression of this PALM protein is conducted in e.coli. The PALM coding gene included the N-terminal 6xHis tag, which simplifies the detection and purification processes of the recombinant PALM protein in following stages of expression and purification.

Paralemmin-1 (PALM) is a membrane-associated phosphoprotein that is primarily expressed in the nervous system, particularly in neurons. It belongs to the paralemmin protein family and is associated with the cell membrane, where it plays a role in membrane dynamics and neuronal functions. PALM has been implicated in processes related to neurite outgrowth, axon guidance, and synaptic plasticity. Additionally, it may be involved in the regulation of ion channels and receptor trafficking within neurons. Research on PALM often focuses on understanding its precise functions in neural development, synaptic transmission, and the overall maintenance of neuronal structure and connectivity. Insights into PALM's roles may contribute to a better understanding of neurological disorders and potential therapeutic strategies.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.