LCP1 Protein, Human (P.pastoris, His)

Cat. No.:	HY-P71750
Synonyms:	CP64; L plastin; L-plastin; Larval cuticle protein 1; LC64P; LCP-1; LCP1; LPL; Lplastin; Lymphocyte cytosolic protein 1; Plastin 2; Plastin-2; PLS2; PLSL_HUMAN
Species:	Human
Source:	P. pastoris
Accession:	P13796 (2A-627V)
Gene ID:	3936
Molecular Weight:	Approximately 85 kDa

PROPERTIES

AA Sequence

ARGSVSDEEM MELREAFAKV DTDGNGYISF NELNDLFKAA
CLPLPGYRVR EITENLMATG DLDQDGRISF DEFIKIFHGL
KSTDVAKTFR KAINKKEGIC AIGGTSEQSS VGTQHSYSEE
EKYAFVNWIN KALENDPDCR HVIPMNPNTN DLFNAVGDGI
VLCKMINLSV PDTIDERTIN KKKLTPFTIQ ENLNLALNSA
SAIGCHVVNI GAEDLKEGKP YLVLGLLWQV IKIGLFADIE
LSRNEALIAL LREGESLEDL MKLSPEELLL RWANYHLENA
GCNKIGNFST DIKDSKAYYH LLEQVAPKGD EEGVPAVVID
MSGLREKDDI QRAECMLQQA ERLGCRQFVT ATDVVRGNPK
LNLAFIANLF NRYPALHKPE NQDIDWGALE GETREERTFR
NWMNSLGVNP RVNHLYSDLS DALVIFQLYE KIKVPVDWNR
VNKPPYPKLG GNMKKLENCN YAVELGKNQA KFSLVGIGGQ
DLNEGNRTLT LALIWQLMRR YTLNILEEIG GGQKVNDDII
VNWVNETLRE AKKSSSISSF KDPKISTSLP VLDLIDAIQP
GSINYDLLKT ENLNDDEKLN NAKYAISMAR KIGARVYALP
EDLVEVNPKM VMTVFACLMG KGMKRV

Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in 20 mM Tris-HC1, 0.5 M NaCl, 6% Trehalose, pH 8.0
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	LCP1, an actin-binding protein, functions as a key regulator in the activation of T-cells, responding to costimulation signals through TCR/CD3 and CD2 or CD28. It plays a pivotal role in modulating the cell surface expression of IL2RA/CD25 and CD69. LCP1 exists as a monomer and exhibits interactions with AIF1 (By similarity) and actin, underlining its involvement in the intricate network of cellular processes related to immune responses and T-cell activation.

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