TLCD1 Protein, Human (Cell-Free, His)

Cat. No.:	HY-P702469
Synonyms:	TLC domain-containing protein 1; Calfacilitin
Species:	Human
Source:	E. coli Cell-free
Accession:	Q96CP7 (R36-E247)
Gene ID:	116238
Molecular Weight:	26.1 kDa

PROPERTIES

AA Sequence	R A D P L R T W R W H N L L V S F A H S I V S G I W A L L C V W Q T P D M L V E I E T A W S L S G Y L L V C F S A G Y F I H D T V D I V A S G Q T R A S W E Y L V H H V M A M G A F F S G I F W S S F V G G G V L T L L V E V S N I F L T I R M M M K I S N A Q D H L L Y R V N K Y V N L V M Y F L F R L A P Q A Y L T H F F L R Y V N Q R T L G T F L L G I L L M L D V M I I I Y F S R L L R S D F C P E H V P K K Q H K D K F L T E
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μm filtered solution of Tris/PBS-based buffer, 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. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
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	TLCD1 protein serves as a crucial regulator of plasma membrane dynamics by intricately modulating its composition and fluidity. Notably, TLCD1 exerts inhibitory control over the integration of membrane-fluidizing phospholipids enriched with omega-3 long-chain polyunsaturated fatty acids (LCPUFA), thereby fostering membrane rigidity. Interestingly, TLCD1's influence seems specific to membrane properties, as it does not manifest any discernible impact on the synthesis of LCPUFAs. This nuanced regulation positions TLCD1 as a key player in maintaining the structural integrity and functional

	balance of the plasma membrane.

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