CALML5 Protein, Human (His)

Cat. No.:	HY-P76760
Synonyms:	Calmodulin-like protein 5; Calmodulin-like skin protein; CLSP
Species:	Human
Source:	E. coli
Accession:	Q9NZT1 (M1-E146)
Gene ID:	51806
Molecular Weight:	Approximately 15-18 kDa

PROPERTIES

AA Sequence	M A G E L T P E E E A Q Y K K A F S A V D T D G N G T I N A Q E L G A A L K A T G K N L S E A Q L R K L I S E V D S D G D G E I S F Q E F L T A A K K A R A G L E D L Q V A F R A F D Q D G D G H I T V D E L R R A M A G L G Q P L P Q E E L D A M I R E A D V D Q D G R V N Y E E F A R M L A Q E
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, pH 7.4, 10% Glycerol.
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 a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	The CALML5 Protein is characterized by its calcium-binding capacity and may play a role in the terminal differentiation of keratinocytes. This suggests a potential involvement in key processes associated with the maturation and specialization of these skin cells. Notably, CALML5 associates with transglutaminase 3, indicating a possible collaborative role in cellular functions related to skin development and maintenance. The calcium-binding property of CALML5 likely contributes to its regulatory functions in these processes, underscoring its significance in the intricate molecular mechanisms governing keratinocyte differentiation.

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

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