
Product Data Sheet

Product Name: CALML5 Human
 Cat. No.: GP22957
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	CLSP; Calmodulin-like skin protein; CALML5; Calmodulin-like protein 5.		
Amino Acid Sequence	MKHHHHHHAS AGELTPEEEA QYKKAFAVD TDGNGTINAQ ELGAALKATG KNLSEAQLRK LISEVDSGD GEISFQEFLT AAKKARAGLE DLQVAFRAFD QDGDGHITVD ELRRAMAGLG QPLPQEELDA MIREADVVDQD GRVNYEEFAR MLAQE.		
Solubility	It is recommended to add 200µl deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely. CALML5 is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.		
Formulation	CALML5 filtered (0.4 µm) and lyophilized from 0.5mg/ml in 20 mM Tris buffer, 50 mM NaCl and 5% w/v trehalosa, pH 7.5.		

Introduction

Calmodulin Like 5, also known as CALML5 is a part of the calmodulin family of calcium binding proteins. CALML5 undergoes a conformational change as a result of binding calcium. CALML5 is taking part in terminal differentiation of keratinocytes and encodes a calcium binding protein expressed in the epidermis.

Stability

Store lyophilized protein at -20°C . Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C .

Background

CALML5 Human Recombinant produced in E.Coli is a single, non-glycosylated,

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Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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polypeptide chain (a.a 2-146) containing 155 amino acids including a 10 a.a N-terminal His tag. The total molecular mass is 17.0kDa (calculated).

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