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Datasheet for ABIN1691416

CALU Protein (AA 20-315) (His tag)

Overview

Quantity:	50 µg
Target:	CALU
Protein Characteristics:	AA 20-315
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CALU protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Calumenin/CALU (C-6His)
Sequence:	KPTEKKDRVH HEPQLSDKVH NDAQSFDYDH DAFLGAEAAK TFDQLTPEES KERLGKIVSK IDGDKDGFVT VDELKDWIKF AQKRWIYEDV ERQWKGHDLN EDGLVSWEEY KNATYGYVLD DPDPDDGFNY KQMMVRDERR FKMADKDGDL IATKEEFTAF LHPEEYDYMK DIVVQETMED IDKNADGFID LEEYIGDMYS HDGNTDEPEW VKTEREQFVE FRDKNRDGKM DKEETKDWIL PSDYDHAAEAE ARHLVYESDQ NKDGKLTKEE IVDKYDLFVG SQATDFGEAL VRHDEFVDHH HHHH
Characteristics:	Recombinant Human Calumenin/CALU is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Lys20-Phe315) of Human CALU fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	CALU
Alternative Name:	Calumenin (CALU Products)
Sub Type:	Fusionprotein
Background:	<p>Calumenin is a secreted calcium-binding protein that belongs to the CREC family. Calumenin contains six EF-hand domains and is expressed at high levels in the heart, placenta and skeletal muscle. Human Calumenin is synthesized as a 315 amino acid precursor that contains a 19 amino acid signal sequence, and a 296 amino acid mature chain. Calumenin localizes to the endoplasmic reticulum (ER) and sarcoplasmic reticulum (SR) of mammalian tissues which plays a role in ER functions as protein folding and sorting. Calumenin is involved in the regulation of vitamin K-dependent carboxylation of multiple N-terminal glutamate residues. It seems to inhibit gamma-carboxylase GGCX.</p> <p>Alternative Names: Calumenin, Crocalbin, IEF SSP 9302, CALU</p>
Molecular Weight:	36 kDa
UniProt:	O43852

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH₂O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	<p>Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7°C for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>
Expiry Date:	3 months