

Recombinant Human CALU, His-tagged

Cat. No. CALU-26206TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Calumenin with a N terminal His tag. 317 amino acids with a predicted MWt 37.2 kDa including tag.
Species	Human
Source	E.coli
ProteinLength	296 amino acids
Description	The product of this gene is a calcium-binding protein localized in the endoplasmic reticulum (ER) and it is involved in such ER functions as protein folding and sorting. This protein belongs to a family of multiple EF-hand proteins (CERC) that include reticulocalbin, ERC-55, and Cab45 and the product of this gene. Alternatively spliced transcript variants encoding different isoforms have been identified.
Conjugation	HIS
Molecular Weight	37.200kDa inclusive of tags
Tissue specificity	Ubiquitously expressed. Expressed at high levels in heart, placenta and skeletal muscle, at lower levels in lung, kidney and pancreas and at very low levels in brain and liver.
Form	Liquid

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Purity	>90% by SDS-PAGE
Storage buffer	pH: 8.00 Constituents: 10% Glycerol, 0.32% Tris HCl
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C long term. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHH SSSLVPRGSH MKPTEKKDRV HHEPQLSDKV HNDAQSFDYD HDAFLGAEAA KTFDQLTPEE SKERLGKIVS KIDGDKDGFV TVDELKDWIK FAQKRWIYED VERQWKGHDL NEDGLVSWEE YKNATYGYVL DDPDPDDGFN YKQMMVRDER RFKMADKDG D LIATKEEFTA FLHPPEYDYM KDIVVQETME DIDKNADGFI DLEEYIGDMY SHDGNTDEPE WVKTEREQFV EFRDKNRDGK MDKEETKDWI LPSDYDHAEA EARHLVYESD QNKDGKLTKE EIVDKYDLFV GSQATDFGEA LVRHDEF.
Sequence Similarities	Belongs to the CREC family. Contains 6 EF-hand domains.

GENE INFORMATION

Gene Name	CALU calumenin [Homo sapiens]
Official Symbol	CALU
Synonyms	CALU; calumenin;
Gene ID	813
mRNA Refseq	NM_001130674
Protein Refseq	NP_001124146

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MIM	603420
Uniprot ID	O43852
Chromosome Location	7q32
Pathway	Hemostasis, organism-specific biosystem; Platelet activation, signaling and aggregation, organism-specific biosystem; Platelet degranulation, organism-specific biosystem; Response to elevated platelet cytosolic Ca ²⁺ , organism-specific biosystem;
Function	calcium ion binding; protein binding;

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