Recombinant Active Human CALU Protein (20-315aa)

Cat. No. CALU-12H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant active human CALU protein (20-315) without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	20-315
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.
Form	Sterile filtered clear solution
Bio-activity	The IC50 value is < 2.0 nM. The inhibitory function of Cystatin 5 on protease activity of papain was measured by a fluorometric assay using Z-FR-AMC at pH 7.5 at 25 centigrade.
Molecular Mass	35 kDa
AA Sequence	MKPTEKKDRVHHEPQLSDKVHNDAQSFDYDHDAFLGAEEAKTFDQLTPEESKERL GKIVSKIDGDKDGFVTVDELKDWIKFAQKRWIYEDVERQWKGHDLNEDGLVSWEEY

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	KNATYGYVLDDPDPDDGFNYKQMMVRDERRFKMADKDGDLIATKEEFTAFLHPEEY DYMKDIVVQETMEDIDKNADGFIDLEEYIGDMYSHDGNTDEPEWVKTEREQFVEFR DKNRDGKMDKEETKDWILPSDYDHAEAEARHLVYESDQNKDGKLTKEEIVDKYDLF VGSQATDFGEALVRHDEF
Purity	Greater than 90.0% as determined by SDS-PAGE
Notes	Protein activity can be an ambiguous term. Please refer to the data sheet or inquire with Technical Support to determine the definition of activity for this product. Small volumes of CALU active protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Storage	Store at 4 centigrade if entire vial will be used within 2-4 weeks. Store, frozen at-20 centigrade for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles
Storage Buffer	Solution contains phosphate buffered saline (pH7.4) and 10% glycerol

GENE INFORMATION

Gene Name	CALU calumenin [Homo sapiens (human)]
Official Symbol	CALU
Synonyms	CALU; calumenin; calumenin; IEF SSP 9302; crocalbin-like protein; multiple EF-hand protein

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Gene ID	813
mRNA Refseq	NM_001219
Protein Refseq	NP_001210
MIM	603420
UniProt ID	O43852

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