

RPPB2972

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## Product Information    Protein Information

**Product SKU:**

RPPB2972

**Accession:**

O43852

**Host:**

Escherichia Coli.

**Protein description:**

Calumenin Human Recombinant produced in E. coli is a single polypeptide chain containing 297 amino acids (20-315) and having a molecular mass of 35kDa. Calumenin is purified by proprietary chromatographic techniques.

**Appearance:**

Sterile Filtered clear solution.

**Synonyms:**

CALU, Cocalbin, IEF SSP 9302, FLJ90608, Calumenin.

**Formulation:**

The Calumenin solution (0.5mg/1ml) contains phosphate buffered saline (pH7.4) and 10% glycerol.

**Purity:**

Greater than 90.0% as determined by SDS-PAGE.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C 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.

**Amino Acid Sequence:**

MKPTEKKDRV HHEPQLSDKV HNDASQFDYD HDAFLGAEAA KTFDQLTPEE SKERLGKIVS KIDGDKDGFV  
TVDELKDVIK FAQKRWIYED VERQWKGHDL NEDGLVSWEE YKNATYGYVL DDPDPDDGFN YKQMMVRDER  
RFKMADKDGD LIATKEEFTA FLHPEEYDYM KDIVVQETME DIDKNADGFI DLEEYIGDMY SHDGNTDEPE  
WVKTEREQFV EFRDKNRDGK MDKEETKDWI LPSDYDHAEA EARHLVYESD QNKDGLTKE EIVDKYDLFV  
GSQATDFGEA LVRHDEF.

**Biological Activity:**

The IC50 value is < 2.0nM. 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 25C.