

## Calumenin Human Recombinant

<b>Item Number</b>	rAP-2941
<b>Synonyms</b>	CALU, Crocalbin, IEF SSP 9302, FLJ90608, Calumenin.
<b>Description</b>	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.
<b>Uniprot Accesion Number</b>	O43852
<b>Amino Acid Sequence</b>	MKPTEKKDRV HHEPQLSDKV HNDQSFSDYD HDAFLGAEAA KTFDQLTPEE SKERLGKIVS KIDGDKDGFV TVDELKDWIK FAQKRWIYED VERQWKGHDL NEDGLVSWEE YKNATYGYVL DDPDPDDGFN YKQMMVRDER RFKMADKGDG LIATKEEFTA FLHPEEYDYM KDIVVQETME DIDKNADGFI DLEEYIGDMY SHDGNTDEPE WVKTEREQFV EFRDKNRDGK MDKEETKDWI LPSDYDHAEA EARHLVYESD QNKDGLTKE EIVDKYDLFV GSQATDFGEA LVRHDEF.
<b>Source</b>	Escherichia Coli.
<b>Physical Appearance and Stability</b>	Sterile Filtered clear solution. 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.
<b>Formulation and Purity</b>	The Calumenin solution (0.5mg/1ml) contains phosphate buffered saline (pH7.4) and 10% glycerol. Greater than 90.0% as determined by SDS-PAGE.
<b>Application</b>	
<b>Solubility</b>	
<b>Biological Activity</b>	The IC50 value is <math>\leq 2.0\text{nM}</math>. 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.
<b>Shipping Format and Condition</b>	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**