

Recombinant Chicken Cathepsin B (CTSB)

Cat. No.: AP4C611

Product Type: Animal Proteins

Size: 10 µg; 50 µg; 200 µg; 1 mg; 5 mg

Product Overview

BioVenic's Recombinant Chicken Cathepsin B (CTSB) is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is 37.6 kDa. The purity is >85% (SDS-PAGE).

Specifications

Type	Recombinant Protein
Species	Chicken
Expression System	<i>E.coli</i>
Purity	>85% (SDS-PAGE)
Predicted Molecular Weight	37.6 kDa
Physical State	Lyophilized
Formulation	Tris/PBS-based buffer, 5%-50% glycerol.

Target Information

Chicken Cathepsin B (CTSB) is a lysosomal cysteine protease that plays a crucial role in various physiological and pathological processes. As a member of the papain family, CTSB is involved in intracellular protein degradation, antigen processing, autophagy, and mitosis. In chickens, CTSB is essential for maintaining cellular homeostasis and responding to stress. It can be released from lysosomes into the cytoplasm under stress conditions, leading to cell death and inflammation. Additionally, CTSB has been implicated in tumor progression, where it promotes angiogenesis and metastasis. Abnormal expression of CTSB is associated with several diseases, making it a potential target for therapeutic interventions.

Protein	Chicken Cathepsin B (CTSB)
Protein Synonym	Cathepsin B1; Cathepsin B light chain
Gene ID	396329
EC No.	P43233

Shipping and Storage

This product is shipped with ice packs. Lyophilized protein can be stored at -80°C for 1 year. After reconstitution, the protein solution can be stored at 2-8°C for 2-7 days.

User Note

Always centrifuge tubes before opening. Avoid mixing by vortexing or pipetting. Reconstitute in deionized sterile water to a concentration of 0.1-1.0 mg/mL. Aliquot the reconstituted solution to minimize freeze-thaw cycles.

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.