

Recombinant Bovine Cathepsin S (CTSS)

Cat. No.: AP9C534

Product Type: Animal Proteins

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

Product Overview

BioVenic's Recombinant Bovine Cathepsin S (CTSS) is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is 27.5 kDa. The purity is >95% (SDS-PAGE).

Specifications

Type	Recombinant Protein
Species	Bovine
Expression System	<i>E.coli</i>
Purity	>95% (SDS-PAGE)
Endotoxin	< 1 EU/µg
Predicted Molecular Weight	27.5 kDa
Physical State	Lyophilized
Formulation	The buffer before lyophilization is 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.

Target Information

Bovine cathepsin S (CTSS) is a lysosomal cysteine protease that plays a significant role in immune response and antigen presentation. It is involved in the processing of proteins within the lysosome and contributes to the activation of immune cells. CTSS is also implicated in neuronal activation and synaptic regulation, with potential roles in cognitive function and neurodegenerative diseases.

Protein	Bovine Cathepsin S (CTSS)
Protein Synonym	CTS-S
Gene ID	327711
UniProt ID	P25326

Shipping and Storage

This product is shipped with dry ice. It is recommended to aliquot as needed and store at -80°C upon receipt. Reconstituted protein solution can be stored at 4°C for 1 week, at < -80°C for 12 months. Avoid repeated freezing and thawing.

User Note

Always centrifuge tubes before opening. Avoid mixing by vortexing or pipetting. Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Aliquot the reconstituted solution to minimise freeze-thaw cycles.

Reference

Kirschke, H. *et al.*. Cathepsin S. The cysteine proteinase from Sheep lymphoid tissue is distinct from cathepsin L (EC 3.4.22.15). *The Biochemical journal* . 1986, 240,2: 455-9.

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.