

Recombinant Bovine Cathepsin K (CTSK), N-His

Cat. No.: AP9C518

Product Type: Animal Proteins

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

Product Overview

BioVenic's Recombinant Bovine Cathepsin K (CTSK), N-His is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is 30.47 kDa. The purity is >97% (SDS-PAGE).

Specifications

Type	Recombinant Protein
Species	Bovine
Expression System	<i>E.coli</i>
Purity	>97% (SDS-PAGE)
Endotoxin	< 1 EU/µg
Predicted Molecular Weight	30.47 kDa
Molecular Weight	30.47 kDa
Physical State	Lyophilized
Formulation	The buffer before lyophilization is PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.

Target Information

Bovine cathepsin K (CTSK) is a cysteine protease predominantly expressed in osteoclasts and is central to the bone resorption process. It degrades collagen I and other matrix proteins in bone, playing a significant role in the maintenance of bone homeostasis. In cattle, CTSK is crucial for bone remodeling and is a key enzyme in the degradation of bone matrix, which is essential for normal bone physiology and health.

Protein	Bovine Cathepsin K (CTSK)
Protein Synonym	CTS-K; CTS02; CTSO; CTSO1; CTSO2; PKND; PYCD; Pycnodysostosis; Cathepsin O; Cathepsin X
UniProt ID	Q5E968

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.

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.