

Recombinant Canine Cathepsin K (CTSK), N-His-SUMO

Cat. No.: AP9C591

Product Type: Animal Proteins

Size: 20 µg; 100 µg; 1 mg

Product Overview

BioVenic's Recombinant Canine Cathepsin K (CTSK), N-His-SUMO is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is 39.5 kDa. The purity is >90% (SDS-PAGE).

Specifications

Type	Recombinant Protein
Species	Canine
Expression System	<i>E.coli</i>
Purity	>90% (SDS-PAGE)
Predicted Molecular Weight	39.5 kDa
Physical State	Lyophilized
Formulation	The buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose.

Target Information

Canine cathepsin K (CTSK) is a lysosomal cysteine protease expressed in various tissues, with significant activity in osteoclasts. It is crucial for bone remodeling by degrading collagen and other bone matrix proteins. In dogs, CTSK contributes to the maintenance of skeletal health and the resorption of bone during growth and repair. This enzyme is also implicated in pathological conditions associated with increased bone resorption, such as osteoporosis and certain types of cancer that metastasize to bone.

Protein	Canine Cathepsin K (CTSK)
Protein Synonym	CTSK; Cathepsin K; EC 3.4.22.38
Gene ID	608843
UniProt ID	Q3ZKN1

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.