

Recombinant Mouse Cathepsin D (Ctsd), N-His

Cat. No.: AP4C765

Product Type: Animal Proteins

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

Product Overview

BioVenic's Recombinant Mouse Cathepsin D (Ctsd), N-His is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is 39.4 kDa. The purity is > 97%.

Specifications

Type	Recombinant Protein
Species	Mouse
Expression System	<i>E.coli</i>
Purity	> 97%
Endotoxin	<1.0 EU per 1µg (determined by the LAL method)
Predicted Molecular Weight	39.4 kDa
Physical State	Lyophilized
Formulation	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose.

Target Information

Mouse Cathepsin D (Ctsd) is an aspartic protease localized in lysosomes, where it plays a critical role in the degradation of proteins and the turnover of cellular components. Ctsd is synthesized as a proenzyme and requires acidic pH for optimal activity. In mice, Ctsd is involved in various physiological processes, including antigen processing, apoptosis regulation, and the degradation of extracellular matrix components during tissue remodeling. Research on Ctsd in mice has shown that its deficiency leads to the accumulation of undegraded proteins and lysosomal storage disorders. Ctsd has also been implicated in neurodegenerative diseases, cancer progression, and infectious diseases, highlighting its importance as a therapeutic target.

Protein	Mouse Cathepsin D (Ctsd)
Protein Synonym	Cathepsin D
Gene ID	13033
EC No.	P18242

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 ddH₂O to a concentration of 0.1-0.25 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.