

Recombinant Mouse Cathepsin S (Ctss), N-His

Cat. No.: AP4C866

Product Type: Animal Proteins

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

Product Overview

BioVenic's Recombinant Mouse Cathepsin S (Ctss), N-His is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is 30.3 kDa. The purity is > 90%.

Specifications

Type	Recombinant Protein
Species	Mouse
Expression System	<i>E.coli</i>
Purity	> 90%
Endotoxin	<1.0 EU per 1µg (determined by the LAL method)
Predicted Molecular Weight	30.3 kDa
Physical State	Lyophilized
Formulation	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose.

Target Information

Mouse Cathepsin S (Ctss) is a lysosomal cysteine protease that plays a critical role in the processing and presentation of antigens by antigen-presenting cells. Ctss is highly expressed in dendritic cells, macrophages, and B cells, where it cleaves invariant chain to facilitate the loading of peptides onto major histocompatibility complex class II molecules. In mice, Ctss is essential for the activation of naive T cells and the initiation of adaptive immune responses. Research on Ctss in mice has provided insights into its functions in immune regulation and its potential involvement in autoimmune diseases and infectious diseases. Ctss has also been implicated in the pathogenesis of atherosclerosis and cancer, suggesting its broad role in both immune and non-immune related pathologies.

Protein	Mouse Cathepsin S (Ctss)
Protein Synonym	Ctss
Gene ID	13040
EC No.	O70370

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 10 mM PBS (pH7.4) 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.