

Recombinant Mouse Cystatin-C (Cst3), N-His

Cat. No.: AP4C711

Product Type: Animal Proteins

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

Product Overview

BioVenic's Recombinant Mouse Cystatin-C (Cst3), N-His is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is 17.1 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	17.1 kDa
Physical State	Lyophilized
Formulation	100 mMNaHCO ₃ , 500 mMNaCl, pH8.3, containing 0.01% SKL, 5% Trehalose.

Target Information

Mouse Cystatin-C (Cst3) is a cysteine protease inhibitor that plays a crucial role in various physiological and pathological processes. It is a member of the cystatin superfamily and is involved in regulating the activity of cysteine proteases, particularly cathepsins. Cst3 is highly expressed in the brain and is implicated in neurodegenerative diseases such as Alzheimer's disease (AD) and cerebral amyloid angiopathy (CAA). In these conditions, Cst3 can bind to amyloid-beta (Aβ) and inhibit its aggregation, which is a hallmark of AD pathology. Additionally, Cst3 has been shown to have neuroprotective effects by promoting autophagy and reducing neuronal apoptosis.

Protein	Mouse Cystatin-C (Cst3)
Protein Synonym	Cystatin-3
Gene ID	13010
EC No.	P21460

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 deionized sterile water 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.