

Recombinant Chicken Fibromodulin (FMOD)

Cat. No.: AP4C677

Product Type: Animal Proteins

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

Product Overview

BioVenic's Recombinant Chicken Fibromodulin (FMOD) is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is 43.9 kDa. The purity is >85% (SDS-PAGE).

Specifications

Type	Recombinant Protein
Species	Chicken
Expression System	<i>E.coli</i>
Purity	>85% (SDS-PAGE)
Predicted Molecular Weight	43.9 kDa
Physical State	Lyophilized
Formulation	Tris/PBS-based buffer, 5%-50% glycerol.

Target Information

Chicken Fibromodulin (FMOD) is a member of the small leucine-rich proteoglycan (SLRP) family and plays a crucial role in various biological processes. It is highly expressed in connective tissues such as cartilage, skin, and tendons, where it regulates collagen fibrillogenesis and tissue repair. FMOD interacts with collagen and lysyl oxidase to modulate collagen cross-linking and fibril architecture, which is essential for maintaining tissue integrity. In chickens, FMOD has been shown to be involved in skeletal muscle development and maintenance, where it regulates myoblast differentiation and muscle atrophy through the TGF-β signaling pathway. Additionally, FMOD is implicated in immune responses and inflammation, with its expression and activity being regulated by macrophage polarization and TGF-β signaling. Abnormal expression of FMOD has been associated with diseases such as arthritis and fibrotic disorders.

Protein	Chicken Fibromodulin (FMOD)
Protein Synonym	FM; Keratan sulfate proteoglycan fibromoduli
Gene ID	395814
EC No.	P51887

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.