

Recombinant Mouse Versican Core Protein (Vcan)-Active

Cat. No.: AP6F9

Product Type: Animal Proteins

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

Product Overview

BioVenic's Recombinant Mouse Versican Core Protein (Vcan)-Active is an active protein. The purity is > 95%. The applications include cell culture and activity assays.

Specifications

Type	Recombinant Protein
Species	Mouse
Expression System	E.coli Expression System
Biological Activity	The EC50 for the binding activity of recombinant mouse VCAN and recombinant dog TGFβ1 is 0.005 µg/mL.
Purity	>95%
Physical State	Lyophilized
Formulation	PBS, pH 7.4, containing 0.01% SKL, 5% Trehalose.

Target Information

Mouse Versican Core Protein (Vcan) is a large chondroitin sulfate proteoglycan with multiple roles in development and disease. It is a key component of the extracellular matrix (ECM) and interacts with hyaluronan, fibronectin, and various cytokines. Versican is involved in cell adhesion, migration, and proliferation, and it regulates inflammation by influencing leukocyte trafficking and activation. In cancer, Versican is upregulated and contributes to tumor progression by promoting ECM remodeling and supporting tumor cell invasion. It also plays a role in the nervous system, where it affects axon regeneration and glial cell development. In the context of tissue injury, Versican accumulates in the ECM and can be cleaved by ADAMTS proteases to generate pro-inflammatory fragments. Its expression is regulated by cytokines such as TGF-β, and it has multiple isoforms (V0-V4) with distinct functions in different tissues.

Protein	Mouse Versican Core Protein (Vcan)
Protein Synonym	Chondroitin sulfate proteoglycan core protein 2; Large fibroblast proteoglycan

Shipping and Storage

This product is shipped with gel ice bags. It is recommended to store at -80 °C on receipt (up to 12 months).

User Note

Avoid repeated freezing and thawing.

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.