

# Active Recombinant Human VCAN protein, His-tagged

**Cat. No.** VCAN-01H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Chinese Hamster Ovary cell line, CHO-derived human Versican protein Leu21-Tyr646, with a C-terminal 6-His tag.                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | CHO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>ProteinLength</b>    | 21-646 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | This gene is a member of the aggrecan/versican proteoglycan family. The protein encoded is a large chondroitin sulfate proteoglycan and is a major component of the extracellular matrix. This protein is involved in cell adhesion, proliferation, proliferation, migration and angiogenesis and plays a central role in tissue morphogenesis and maintenance. Mutations in this gene are the cause of Wagner syndrome type 1. Multiple transcript variants encoding different isoforms have been found for this gene. |
| <b>Form</b>             | Lyophilized from a 0.2 µm filtered solution in PBS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Bio-activity</b>     | Measured by its binding ability in a functional ELISA. When Recombinant Human Versican Isoform V3 is coated at 0.25 µg/mL, 100 µL/well, Biotinylated Hyaluranin binds with an ED50 of 0.25-1.5 ng/mL.                                                                                                                                                                                                                                                                                                                   |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 71 kDa<br>SDS-PAGE: 78-89 kDa, reducing conditions                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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|                                     |                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>N-terminal Sequence Analysis</b> | Leu21                                                                                                                                                                                                                                                                                                                  |
| <b>Endotoxin</b>                    | <0.10 EU per 1 µg of the protein by the LAL method.                                                                                                                                                                                                                                                                    |
| <b>Purity</b>                       | > 90%                                                                                                                                                                                                                                                                                                                  |
| <b>Applications</b>                 | Bioactivity                                                                                                                                                                                                                                                                                                            |
| <b>Storage</b>                      | <p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <p>12 months from date of receipt, -20 to -70 centigrade as supplied.</p> <p>1 month, 2 to 8 centigrade under sterile conditions after reconstitution.</p> <p>3 months, ≤ -20 centigrade under sterile conditions after reconstitution.</p> |
| <b>Reconstitution</b>               | Reconstitute at 500 µg/mL in PBS.                                                                                                                                                                                                                                                                                      |
| <b>Shipping</b>                     | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.                                                                                                                                                                                                |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | VCAN versican [ Homo sapiens (human) ]                                                                                                                                                                                                                                         |
| <b>Official Symbol</b> | VCAN                                                                                                                                                                                                                                                                           |
| <b>Synonyms</b>        | CSPG2; CSPG2DKFZp686K06110; Chondroitin sulfate proteoglycan 2WGN; Chondroitin sulfate proteoglycan core protein 2; ERVR; GHAP; Glial hyaluronate-binding protein; Large fibroblast proteoglycan; PG-M; PG-MWGN1; VCAN; Versican; versican core protein; versican proteoglycan |
| <b>Gene ID</b>         | 1462                                                                                                                                                                                                                                                                           |

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mRNA Refseq [NM\\_004385](#)

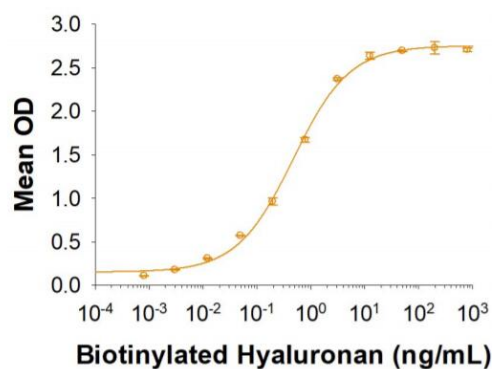
Protein Refseq [NP\\_004376](#)

MIM [118661](#)

UniProt ID [P13611](#)

#### Binding Activity

**Binding Activity**



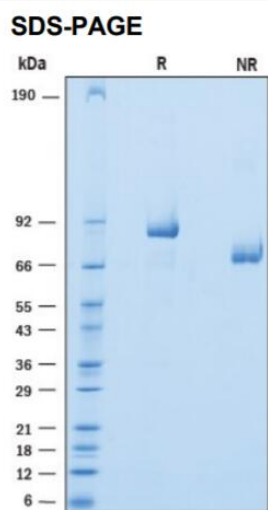
Recombinant Human Versican Isoform V3 His-tag Protein Binding Activity. When Recombinant Human Versican Isoform V3 is coated at 0.25 µg/mL, 100 µL/well, Biotinylated Hyaluranin binds with an ED50 of 0.25-1.5 ng/mL.

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**Recombinant Human  
Versican Isoform V3  
His-tag Protein SDS-  
PAGE.**



2 µg/lane of Recombinant Human Versican Isoform V3 was resolved with SDS-PAGE under reducing (R) and nonreducing (NR) conditions and visualized by Coomassie® Blue staining, showing bands at 78-89 kDa and 67-80 kDa, respectively.

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