

Active Recombinant Human VCAN protein, His-tagged

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

SPECIFICATION

Product Overview Chinese Hamster Ovary cell line, CHO-derived human Versican protein Leu21-Tyr646, with a C-terminal 6-His tag.

Species Human

Source CHO

ProteinLength 21-646 a.a.

Description 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.

Form Lyophilized from a 0.2 µm filtered solution in PBS.

Bio-activity 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.

Molecular Mass Predicted Molecular Mass: 71 kDa
SDS-PAGE: 78-89 kDa, reducing conditions

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

GENE INFORMATION

Gene Name	VCAN versican [<i>Homo sapiens (human)</i>]
Official Symbol	VCAN
Synonyms	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
Gene ID	1462

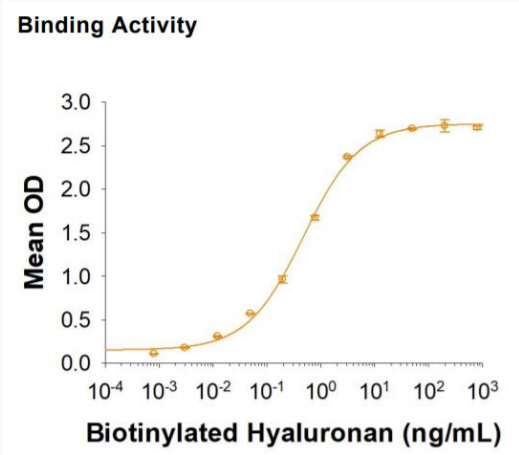
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mRNA Refseq	NM_004385
Protein Refseq	NP_004376
MIM	118661
UniProt ID	P13611

Binding Activity



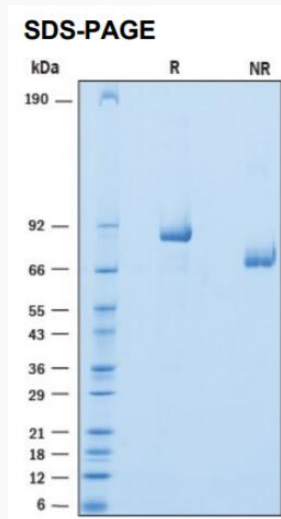
Recombinant Human Versican Isoform V3 His-tag Protein Binding Activity. When Recombinant Human Versican Isoform V3 is coated at 0.25 µg/mL, 100 µL/well, Biotinylated Hyalurinan binds with an ED50 of 0.25-1.5 ng/mL.

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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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