

## Recombinant Human NOV

<b>Catalog No.</b>	CRN001B	<b>Quantity:</b>	20 µg
<b>Alternate Names:</b>	Nephroblastoma Overexpressed gene, CCN3, IGFBP9, NovH.		
<b>Description:</b>	<p>NOV is a member of the CCN family of secreted cysteine rich regulatory proteins. The full length NOV protein contains four structural domains that confer distinct, and sometimes opposing, biological activities. Elevated expression of NOV is associated with certain tumors, including Wilm's tumor and most nephroblastomas. However, in other tumor types and certain cancer cell lines, increased tumorigenicity and proliferation is correlated with decreased NOV expression. Additionally, NOV induces cell adhesion and cell migration by signaling through specific cell surface integrins and by binding to heparin sulfate proteoglycans and to fibulin 1C. NOV has also been reported to exert proangiogenic activities. Recombinant human NOV is a 36.2 kDa protein containing 331 amino acid residues. It is composed of four distinct structural domains (modules); the IGF binding protein (IGFBP) domain, the von Willebrand Factor C (VWFC) domain, the Thrombospondin type-I (TSP type-1) domain, and a C-terminal cysteine knot-like domain (CTCK).</p>		
<b>Source:</b>	<i>E. coli</i>		
<b>Formulation:</b>	Sterile filtered through a 0.2 micron filter. Lyophilized from 10 mM Sodium Citrate, pH 3.0 + 50 mM NaCl.		
<b>Purity:</b>	Greater than 95% by SDS-PAGE gel and HPLC analyses.		
<b>Endotoxin Level:</b>	Less than 0.1 ng per µg (1 EU/µg)		
<b>Biological Activity:</b>	Determined by a cell proliferation assay using BALB/c 3T3 cells. The expected ED <sub>50</sub> for this effect is 1.0-2.0 µg/ml.		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Reconstitute in water to a concentration of 0.1 - 1.0 mg/ml. This solution can then be diluted into other aqueous buffers and stored at 4°C for 1 week or -20°C for future use.		
<b>Storage &amp; Stability:</b>	The lyophilized protein is stable for a few weeks at room temperature, but best stored at -20°C. Reconstituted NOV should be stored in working aliquots at -20°C. <b>Avoid repeated freeze-thaw cycles.</b>		
<b>Country of Origin:</b>	USA		

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