

# Growth Factor Data Sheet

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NOV is a dynamically expressed, multifunctional matricellular protein of the CCN (CTGF/CYR61/NOV) family encoded by the NOV gene. It is expressed in certain tumors, including Wilm's tumor and most nephroblastomas. Expression of NOV has been reported to reduce tumorigenicity and reduce proliferation of certain cancer cell lines. It has also been shown to induce angiogenesis in endothelial cells and stimulate cell migration in many mesenchymal cell types. Recombinant murine NOV is a 36.4 kDa protein containing 333 amino acid residues and it shares 92% and 82% amino acid identity with rat and human NOV.

<b>Catalog Number</b>	<b>1350-01B9</b>
<b>Product Name</b>	<b>NOV, Murine</b> Recombinant Murine Nephroblastoma-overexpressed Gene Protein Homolog Nephroblasta Overexpressed CCN3 IGF Binding Protein-Related Protein 3 (IGFBPrP3) IGFBP9 NOVH
<b>Source</b>	<i>Escherichia coli</i>
<b>MW</b>	~36.4 kDa (333 amino acids)
<b>Sequence</b>	QVSASLRCP S RCPPKCP S I S P T C A P G V R S V L D G C S C C P V C A R Q R G E S C S E M R P C D Q S S G L Y C D R S A D P N N Q T G I C M V P E G D N C V F D G V I Y R N G E K F E P N C Q Y F C T C R D G Q I G C L P R C Q L D V L L P G P D C P A P R K V A V P G E C C E K W T C G S D E Q G T Q G T L G G L A L P A Y R P E A T V G V E V S D S S I N C I E Q T T E W S A C S K S C G M G V S T R V T N R N R Q C E M V K Q T R L C I V R P C E Q E P E E V T D K K G K K C L R T K K S L K A I H L Q F E N C T S L Y T Y K P R F C G V C S D G R C C T P H N T K T I Q V E F Q C L P G E I I K K P V M V I G T C T C Y S N C P Q N N E A F L Q D L E L K T S R G E I
<b>Accession Number</b>	<a href="#">Q64299</a>
<b>Purity</b>	>95% by SDS-PAGE and HPLC analyses
<b>Biological Activity</b>	Fully biologically active when compared to standard. The ED <sub>50</sub> as determined by a cell proliferation assay using murine Balb/c 3T3 cells is less than 1.0 µg/ml, corresponding to a specific activity of > 1000 IU/mg.
<b>Formulation</b>	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
<b>Storage/Handling</b>	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
<b>Reconstitution</b>	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.