

Growth Factor Data Sheet

GoldBio growth factors are manufactured for **RESEARCH USE ONLY** and cannot be sold for human consumption!

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 human NOV is a 36.2 kDa protein containing 331 amino acid residues and it shares 80% and 81% amino acid identity with rat and murine NOV.

Catalog Number	1150-01B9
Product Name	NOV, Human Recombinant Human Nephroblastoma-overexpressed Gene Protein Homolog Nephroblasta Overexpressed CCN3 IGF Binding Protein-Related Protein 3 (IGFBPrP3) IGFBP9 NOVH
Source	<i>Escherichia coli</i>
MW	~36.2 kDa (331 amino acids)
Sequence	MQVAATQRCP PQCPGRCPAT PPTCAPGVRA VLDGCSCCLV CARQRGESC S DLEPCDESSG LYCDRSADPS NQTGICTAVE GDNCVFDGVI YRSGEKFQPS CKFQCTCRDG QIGCVPRCQL DVLLPEPNCP APRKVEVPGE CCEKWICGPD EEDSLGGLTL AAYRPEATLG VEVS DSSVNC IEQTTEWTAC SKSCGMGFST RVTNRNRQCE MLKQTRLCMV RPCEQEPEQP TDKKGGKCLR TKKSLKAIHL QFKNCTSLHT YKPRFCGVCS DGRCTPHNT KTIQAEFQCS PGQIVKKPVM VIGTCTCHTN CPKNNEAFLQ EELKTTTRGK M
Accession Number	P48745
Purity	>95% by SDS-PAGE and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ 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.
Formulation	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
Storage/Handling	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.
Reconstitution	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.