

Recombinant Human Nephroblastoma-overexpressed Gene Protein Homolog (rHuNOV)

ChemWhat Technical Data Sheet (TDS)

Catalog Number:	105-01B9
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 36.2 kDa, a single non-glycosylated polypeptide chain containing 331 amino acids.
Quantity:	5µg/20µg/1000µg
AA Sequence:	MQVAATQRCP PQCPGRCPAT PPTCAPGVRA VLDGCSCLLV CARQRGESCS DLEPCDESSG LYCDRSADPS NQTGICTAVE GDNCVFDGVI YRSGEKFQPS CKFQCTCRDG QIGCVPRCQL DVLLPEPNCP APRKVEVPGE CCEKWICGPD EEDSLGGLTL AAYRPEATLG VEVSDSSVNC IEQTTEWTAC SKSCGMGFST RVTNRNRQCE MLKQTRLCMV RPCEQEPEQP TDKKGGKCLR TKKSLKAIHL QFKNCTSLHT YKPRFCGVCS DGRCCTPHNT KTIQAEFQCS PGQIVKKPVM VIGTCTHTN CPKNNEAFLQ ELELKTTRGK M
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.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM Tris-HCl, pH 8.6, 150 mM NaCl.
Endotoxin:	Less than 0.1 EU/µg of rHuNOV as determined by LAL method.
Reconstitution:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C . Further dilutions should be made in appropriate buffered solutions.
Shipping:	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">● 12 months from date of receipt, -20 to -70 °C as supplied.● 1 month, 2 to 8 °C under sterile conditions after reconstitution.● 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Usage:	ChemWhat Limited in UK offers this branded product for research, development or further evaluation purposes. NOT FOR HUMAN USE.

Human Nephroblastoma-overexpressed Gene Protein Homolog

NOV, also named CCN3, IGFBP-9 and NovH, is belonging to the CCN (CTGF/CYR61/NOV) family and it is encoded by the NOV gene. It is expressed in certain tumors, including Wilm's tumor and most nephroblastomas. NOV interacts with several proteins and is involved in both internal and external cell signaling. NOV plays an important role in reducing tumorigenicity and proliferation of certain cancer cell lines. It also been reported to exert proangiogenic activities. Recombinant human NOV is an 36.2 kDa protein containing 331 amino acid residues and it shares 80% and 81% a.a. identity with rat and murine NOV.