

Recombinant Murine Nephroblastoma-overexpressed Gene Protein Homolog (rMuNOV)

ChemWhat Technical Data Sheet (TDS)

Catalog Number:	125-01B9
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 36.4 kDa, a single non-glycosylated polypeptide chain containing 333 amino acids.
Quantity:	5µg/20µg/1000µg
AA Sequence:	QVSASLRCP S RCPPKCP S PTCAPGVRSV LDGCSCCPVC ARQRGESCSE MRPCDQSSGL YCDRSADPNN QTGICMVPEG DNCVFDGVIY RNGEKFEPNC QYFCTCRD GQ IGCLPRCQLD VLLPGPDCPA PRKVAVP GEC CEKWTCGSDE QGTQGLT L GGL ALPAYRPEAT VGVEVSDSSI NCIEQTTEWS ACSKSCGMGV STRVTNRNRQ CEMVKQTRLC IVRPCEQEPE EVTDKKGK K K LRTKKSLKAI HLQFENCTSL YTYKPRFCGV CSDGRCC T PH NTKTIQVEFQ CLPGEI I K K P VMVIGTCTCY SNCPQNNEAF LQDLELKT SR GEI
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 rMuNOV 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.

Murine 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 murine NOV is an 47.6 kDa protein containing 430 amino acid residues and it shares 92% and 82% a.a. identity with rat and human NOV.