

## DATASHEET

Version 20181206

### NOV, Human

**Cat. No.:** Z03152-1

**Size:** 1.0 mg

**Synonyms:** Nephroblastoma Overexpressed gene, CCN3, IGFBP9, NovH

**Description:**

Nephroblastoma Overexpressed Gene Protein (NOV), also known as CCN3, IGFBP9 and NOVH, is one of the CCN family of secreted proteins. It is expressed in bone marrow, thymic cells and nephroblastoma. NOV signals through integrin receptors, NOTCH1 and fibulin 1c to regulate multiple cellular activities, such as cell adhesion, migration, proliferation and differentiation. The reported functions of NOV are diverse. It has been reported to play a role in angiogenesis and stem cell self-renewal. It has also been implicated in osteogenic differentiation, embryo development and cancer pathogenesis.

**Amino Acid Sequence:**

```
00001 TQRCPPQCPG RCPATPPTCA PGVRAVLGDC SCCLVCARQR
00041 GESGSDLEPC DESSGLYCDR SADPSNQTGI CTAVEGDNCV
00081 FDGVIYRSGE KFPQSCFKQC TCRDGGIGCV PRCQLDVLLP
00121 EPNCPAPRKV EVPGECCEKW ICGPDEEDSL GGLTLAAYRP
00161 EATLGVEVSD SSVNCIEQTT EWTACSKSCG MGFSTRVTNR
00201 NRQCEMLKQT RLCMVRPCEQ EPEQPTDKKG KKCLRTKKSL
00241 KAIHLQFKNC TSLHTYKPRF CGVCSGDRCC TPHNTKTIQA
00281 EFQCSPGQIV KKPVMVIGTC TCHTNCPKNN EAFLQELELK
00321 TTRGKM
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**Source:** CHO

**Species:** Human

**Biological Activity:** ED<sub>50</sub> < 5 µg/ml, measured in a cell proliferation assay using 3T3 cells.

**Molecular Weight:** 20-50 kDa, observed by reducing SDS-PAGE.

**Formulation:** Lyophilized after extensive dialysis against PBS.

**Reconstitution:** Reconstituted in ddH<sub>2</sub>O or PBS at 100 µg/ml.

**Purity:** > 95% as analyzed by SDS-PAGE and HPLC.

**Endotoxin Level:** < 0.2 EU/µg, determined by LAL method.

**Storage:** Lyophilized recombinant Human NOV remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Human NOV should be stable up to 1 week at 4°C or up to 2 months at -20°C.