

Recombinant Mouse Nephroblastoma-overexpressed Gene Protein Homolog (Mouse NOV)

Product Information

| Product Name | Cat# | Size |
|---|-----------|--------|
| Recombinant Mouse Nephroblastoma-overexpressed Gene Protein Homolog (Mouse NOV) | 92533ES08 | 5 µg |
| | 92533ES60 | 100 µg |
| | 92533ES76 | 500 µg |

Product Description

Protein NOV homolog, also known as Nephroblastoma-overexpressed gene protein homolog, NOV, and CCN3, is a putative ligand for integrin receptors, is tightly associated with the extracellular matrix, and mediates diverse cellular functions, including cell adhesion and proliferation. CCN3 has been shown to negatively regulate growth although it promotes migration in a cell type-specific manner. This secreted protein belongs to the CCN family, and its expression was observed in a broad variety of tissues from the early stage of development, and altered expression of CCN3 has been observed in a variety of tumors, including hepatocellular carcinomas, Wilm's tumors, Ewing's sarcomas, gliomas, rhabdomyosarcomas, and adrenocortical carcinomas. Mature CCN3 protein has five distinct modules and truncated protein variants with altered function are found in many cancers. CCN3 acts through the core stem cell signaling pathways including Notch and Bone Morphogenic Protein, connecting CCN3 with the modulation of self-renewal and maturation of some cell lineages including hematopoietic, osteogenic, and chondrogenic. CCN3 may affect the extracellular environment of the niche for hematopoietic stem cells. CCN3 has emerged as a key player in stem cell regulation, hematopoiesis, and a crucial component within the bone marrow microenvironment.

Product Properties

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| Synonyms | NOVh Protein,CCN3 Protein, IBP-9 Protein, IGFBP-9 Protein, IGFBP9 Protein |
| Accession | Q64299 |
| GeneID | 18133 |
| Source | E.coli-derived mouse Nephroblastoma-overexpressed Gene Protein Homolog,Gln28-Met357 |
| Molecular Weight | Approximately 36.4 kDa. |
| AA Sequence | QVSASLRCPSP RCPPKCPSPS PTCAPGVRSV LDGCS CCPVC ARQRGESCSE MRPCDQSSGL YCDRSADPNN QTGICMVPEG DNCVFDGVIY RNGEKFEFNC QYFCTCRDGG IGCLPRCQLD VLLPGPD CPA PRKVAVPGEC CEKWTCGSDE QGTQGT LGGL ALPAYRPEAT VGVEVSDSSI NCIEQTTEWS ACSKSCGMGV STRVTNRNRQ CEMVKQTRLC IVRPCEQEPE EVTDKKGKKC LRTKKS LKAI HLQFENCTSL YTYKPRFCGV CSDGRCCTPH NTKTIQVEFQ CLPGEIHKP VMVIGTCTCY SNCPQNNEAF LQDLELKT SR GEI |
| Tag | None |
| Physical Appearance | Sterile Filtered White lyophilized (freeze-dried) powder. |
| 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. |
| Endotoxin | < 0.1 EU per 1µg of the protein by the LAL method. |
| Formulation | Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM Tris-HCl, pH 8.6, 150 mM NaCl. |

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 and Storage

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.
Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only!