

32-1634: NOV Recombinant Protein

Alternative Name : Protein NOV homolog, NovH, CCN family member 3, insulin-like growth factor-binding protein 9, IBP-9, IGF-binding protein 9, IGFBP-9, Nephroblastoma-overexpressed gene protein homolog, NOV, CCN3, IGFBP9, NOVH.

Description

Source : Escherichia Coli. Nephroblastoma Overexpressed Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 331 amino acids and having a molecular mass of 36.2 kDa. The NOV is purified by proprietary chromatographic techniques. Nephroblastoma Overexpressed (NOV) which is encoded by the NOV gene is a part of the CCN (CTGF/CYR61/NOV) family. NOV takes part in reducing tumorigenicity and proliferation of certain cancer cell lines. NOV interacts with numerous proteins and is involved in both internal and external cell signaling. NOV is expressed in particular tumors, including Wilm's tumor and most nephroblastomas and is also exerts proangiogenic activities.

Product Info

Amount : 20 µg
Purification : Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Content : Lyophilized from a 0.2µm filtered concentrated solution in 20mM Tris-HCl, pH 8.6 and 150 mM NaCl.
Storage condition : Lyophilized NOV although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution NOV should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Amino Acid : MQVAATQRCP PQCPRCPAT PPTCAPGVRA VLDGCSCLLV CARQRGESCS DLEPCDESSG LYCDRSADPS NQTGICTAVE GDNCVFDGVI YRSGEKFQPS CKFQCTCRDG QIGCVPRCQL DVLLPEPNCP APRKVEVPGE CCEKWICGPD EEDSLGGLTL AAYRPEATLG VEVSDSSVNC IEQTTEWTAC SKSCGMGFST RVTNRNRQCE MLKQTRLQMV RPCEQEPEQP TDKKGGKCLR TKKSLKAIHL QFKNCTSLHT YKPRFCGVCS DGRCTPHNT KTIQAEFQCS PGQIVKKPVM VIGTCTHTN CPKNNEAFLQ EELKTTRGK M.

Application Note

It is recommended to reconstitute the lyophilized NOV in sterile 18M-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions. 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. range of 10.0 -50.0 ng/ml, corresponding to a specific activity of 20,000-100,000units/mg.

