

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

Product Information

Product Name	Cat#	Size
	92514ES08	5μg
Recombinant Human Nephroblastoma-overexpressed Gene Protein Homolog (Human NOV)	92514ES60	100μg
	92514ES76	500μg

Product Description

NOV is a member of the CCN family of secreted, cysteine-rich regulatory proteins. The full-length NOV protein contains four structural domains that confer distinct, and sometimes opposing, biological activities. Elevated expression of NOV is associated with certain tumors, including Wilm's tumor and most nephroblastomas. However, in other tumor types and certain cancer cell lines, increased tumorigenicity and proliferation is correlated with decreased NOV expression. Additionally, NOV induces cell adhesion and cell migration by signaling through specific cell-surface integrins, and by binding to heparin sulfate proteoglycans and to fibulin 1C. NOV has also been reported to exert proangiogenic activities.

Product Properties

Synonyms	Nephroblastoma Overexpressed gene, CCN3, IGFBP9, NovH
Accession	P48745
GeneID	4856
Source	E.coli-derived Human NOVprotein,Gln28-Met357.
Molecular Weight	Approximately 36.2 kDa.
AA Sequence	MQVAATQRCP PQCPRCPAT PPTCAPGVRA VLDGCSCLV CARQRGESCS DLEPCDESSG LYCDRSADPS NQTGICTAVE GDNCVFDGVI YRSGEKFQPS CKFQCTCRDG QIGCVPRCQL DVLLPEPNCP APRKVEVPGE CCEKWICGPD EEDSLGGLTL AAYRPEATLG VEVSDSSVNC IEQTTEWTAC SKSCGMGFST RVTNRNRQCE MLKQTRLCMV RPCEQEPEQP TDKKGGKCLR TKKSLKAIHL QFKNCTSLHT YKPRFCGVCS DGRCCPTHNT KTIQAEFQCS PGQIVKKPVM VIGTCTCHTN CPKNNEAFLQ ELELKTTRGK M
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	> 95 % by SDS-PAGE and HPLC analyses. Fully biologically active when compared to standard. The ED ₅₀ as determined by a cell proliferation assay
Biological Activity	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.