
Product Data Sheet

Product Name: NOV Human
 Cat. No.: GP20787
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Protein NOV homolog; NovH; CCN family member 3; nsulin-like growth factor-binding protein 9; IBP-9; IGF-binding protein 9; IGFBP-9; Nephroblastoma-overexpressed gene protein homolog; NOV; CCN3; IGFBP9; NOVH.		
Amino Acid Sequence	MQVAATQRCP PQCPGRCPAT PPTCAPGVRA VLDGCSCCLV CARQRGESCS DLEPCDESSG LYCDRSADPS NQTGICTAVE GDNCVFDGVI YRSGEKFQPS CKFQCTCRDG QIGCVPRCQL DVLLPEPNCP APRKVEVPGE CCEKWICGPD EEDSLGGLTL AAYRPEATLG VEVSDSSVNC IEQTTEWTAC SKSCGMGFST RVTNRNRQCE MLKQTRLQCMV RPCEQEPEQP TDKKGKKCLR TKKSLKAIHL QFKNCTSLHT YKPRFCGVCS DGRCTPHNT KTIQAEFQCS PGQIVKKPVM VIGTCTCHTN CPKNNEAFLQ ELELKTTRGK M.		
Solubility	It is recommended to reconstitute the lyophilized NOV in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a 0.2µm filtered concentrated solution in 20mM Tris-HCl, pH 8.6 and 150 mM NaCl.		

Introduction

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 Wilms tumor and most nephroblastomas and also exerts proangiogenic activities.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Biological Activity

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.

Stability

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.

Background

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.

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