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## Product Data Sheet

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Product Name: NOV Mouse  
 Cat. No.: GP20789  
 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; Nephroblastoma-overexpressed gene protein homolog; Nov; Ccn3; C130088N23Rik.		
Amino Acid Sequence	<p>QVSASLRCP S RCPPKCPSIS PTCAPGVRSV LDGCSCCPVC ARQRGESCSE          MRPCDQSSGL YCDRSADPNN QTGICMVPEG DNCVFDGVIY RNGEKFEPC          QYFCTCRDGQ IGCLPRCQLD VLLPGDPCA PRKVAVPGEK CEKWTCGSDE          QGTQGTLLGGL ALPAYRPEAT VGVEVSDSSI NCIEQTTEWS ACSKSCGMGV          STRVTNRNRQ CEMVKQTRLC IVRPCEQEPE EVTDKKGKCC LRTKKSLKAI          HLQFENCTSL YTYKPRFCGV CSDGRCCTPH NTKTIQVEFQ CLPGEIHKP          VMVIGTCTCY SNCPQNEAF LQDLELKTSR GEI.</p>		
Solubility	It is recommended to reconstitute the lyophilized NOV in sterile 18M-cm H <sub>2</sub> O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	NOV protein was lyophilized from a 0.2µm filtered concentrated solution in 20mM Tris-HCl, pH 8.5 and 150mM NaCl.		

### Introduction

Nephroblastoma Overexpressed (NOV) is a member of the CCN family of secreted cysteine rich regulatory proteins. The full length NOV protein is comprised of 4 structural domains, which present distinct, and sometimes opposing, biological activities. An elevated expression of NOV is linked with certain tumors, including Wilms tumor and most nephroblastomas. On the other hand, in other tumor types and certain cancer cell lines, increased tumorigenicity and proliferation is associated with decreased NOV expression.

### Biological Activity

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

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The ED50 as determined by a cell proliferation assay using murine Balb/c 3T3 cells is less than 1.0  $\mu\text{g/ml}$ , corresponding to a specific activity of  $> 1000$  IU/mg.

### Stability

Lyophilized NOV although stable at room temperature for 3 weeks, should be stored desiccated below  $-18^{\circ}\text{C}$ . Upon reconstitution NOV should be stored at  $4^{\circ}\text{C}$  between 2-7 days and for future use below  $-18^{\circ}\text{C}$ . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

NOV Mouse Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 333 amino acids and having a molecular mass of 36.4kDa. The NOV is purified by proprietary chromatographic techniques.

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