Product Datasheet

Recombinant Human IFN-gamma Protein
NBP2-34992-20ug

Unit Size: 20ug

Store at -20C. Avoid freeze-thaw cycles.

Publications: 3

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Updated 6/19/2019 v.20.1

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### Product Information

<table>
<thead>
<tr>
<th><strong>Unit Size</strong></th>
<th>20ug</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Concentration</strong></td>
<td>Lyoph</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td>Store at -20C. Avoid freeze-thaw cycles.</td>
</tr>
<tr>
<td><strong>Reconstitution Instructions</strong></td>
<td>Recommended to centrifuge prior to opening. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0mg/mL. Apportion stock solutions into working aliquots and store at &lt;-20C.</td>
</tr>
<tr>
<td><strong>Purity</strong></td>
<td>&gt; 98 % pure by SDS-PAGE and HPLC</td>
</tr>
<tr>
<td><strong>Buffer</strong></td>
<td>Lyophilized from a 0.2 um filtered concentrated solution in PBS, pH 7.4.</td>
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<tr>
<td><strong>Target Molecular Weight</strong></td>
<td>16.9 kDa</td>
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</table>

### Product Description

**Description**
A single, non-glycosylated biologically active polypeptide chain corresponding to 144 residues of IFNG.

**Source:** *E. coli*

**Amino Acid Sequence:** MQDPYYKEAE NLKKYFNAGH SDVADNGTLF LGILKNNWKEE SDRKIMQSQIVSFYFKLFKN FKDDQSIQKS VETIKEDMNVF KFFNSNKKKR DDFKLTNSVTDLNVQRKAIHELIQVMAELSPAAGKGRKRKRSQMLFRGRASQ

**Gene ID** | 3458 |
| **Gene Symbol** | IFNG |
| **Species** | Human |

**Preparation Method**
Novus' biologically active proteins are stringently purified to provide only the safest and most highly effective proteins available. This protein was expressed in *E. coli*, purified by HPLC, QC tested by SDS-PAGE and Western Blot and validated on appropriate cell lines for bioactivity. All HPLC and bioactivity data is provided for your assurance.

**Details of Functionality**
human Interferon gamma protein is fully biologically active when compared to standard. The ED50 as determined by a cytotoxicity assay using HT-29 cells is less than 0.05 ng/ml, corresponding to a specific activity of > 2.0 x 10^7 IU/mg

**Notes**
This lyophilized preparation is stable at 2-8 degrees C, but should be kept at -20 degrees C for long term storage, preferably desiccated. Upon reconstitution, the preparation is most stable at -20 to -80 degrees C, and can be stored for one week at 2-8 degrees C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 degrees C to -80 degrees C. Avoid repeated freeze/thaw cycles.

**Endotoxin Note**
Less than 1 EU/ug of endotoxin as determined by LAL method

### Product Application Details

**Applications**
Functional, SDS-Page, Bioactivity

**Recommended Dilutions**
Functional, SDS-Page, Bioactivity
Images
SDS-Page: Human IFN-gamma Protein [NBP2-34992]

Publications
Wang L, Yang X, Li D et al. The elevated glutaminolysis of bladder cancer and T cells in a simulated tumor microenvironment contributes to the up-regulation of PD-L1 expression by interferon-g. bioRxiv. Oct 31 2018 12:00AM [PMID: 30425515]


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Products Related to NBP2-34992-20ug

<table>
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<th>Product Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>NBP2-35071-20ug</td>
<td>Recombinant Mouse IFN-gamma Protein</td>
</tr>
<tr>
<td>210-TA-005</td>
<td>TNF-alpha [Unconjugated]</td>
</tr>
<tr>
<td>285-IF-100</td>
<td>IFN-gamma [Unconjugated]</td>
</tr>
<tr>
<td>6507-IL-010/CF</td>
<td>IL-4</td>
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Limitations
This product is for research use only and is not approved for use in humans or in clinical diagnosis. Peptides and proteins are guaranteed for 3 months from date of receipt.

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