## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

<table>
<thead>
<tr>
<th>Functional Assays</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

### Target Species

Human

### Product Form

Purified Recombinant protein - lyophilised.

### Reconstitution

Reconstitute with 0.1ml distilled water.

Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution.

### Preparation

Purified recombinant Interferon beta 1b expressed in *E. coli*.

### Buffer Solution

Lyophilised from a solution containing human albumin and dextrose.

### Preservative Stabilisers

None present

### Approx. Protein Concentrations

0.1 mg/ml after reconstitution

### External Database Links

**UniProt**:  
[P01574](http://www.uniprot.org/uniprot/P01574)  
Related reagents

**Entrez Gene**:  
IFNB  
Related reagents

### Synonyms

IFB, IFNB
Product Information

Recombinant human interferon beta 1b produced in *E. coli* is a single non-glycosylated variant form of the human interferon beta-1b polypeptide chain. The interferon gene was cloned from human fibroblasts and altered to substitute Serine for the Cysteine at residue 17.

Molecular Weight

18.5 kDa (165 amino acid residues)

Activity

The Specific activity determined using a viral resistance assay is of $32 \times 10^6$ IU/mg. The viral resistance assays used are the human WISH cell line and VSV, or the monkey VERO cell line and EMCV.

Purity

>98% by SDS PAGE and HPLC analysis.

References


Storage

Store at -20°C only. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the protein. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

3 months from date of reconstitution.

Health And Safety Information

Material Safety Datasheet documentation #10268 available at:

Regulatory

For research purposes only

© 2018 Bio-Rad Laboratories Inc  |  [Legal](#)  |  [Imprint](#)