### Product Details

**Description:** RECOMBINANT HUMAN INSULIN-LIKE GROWTH FACTOR I  
**Name:** IGF-I  
**Other names:** INSULIN-LIKE GROWTH FACTOR I  
**Format:** Rec. Protein  
**Product Type:** Recombinant Protein  
**Quantity:** 0.1 mg

#### 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>
</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 - lyophilized

**Reconstitution**  
Reconstitute with 1.0 ml 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 IGF-I expressed in *E.coli*

**Preservative Stabilisers**  
None present

**Endotoxin Level**  
<1EU/ug

**Approx. Protein Concentrations**  
0.1 mg/ml

**External Database Links**

- **UniProt:** P05019  
  Related reagents

- **Entrez Gene:** 3479  
  IGF1  
  Related reagents

**Synonyms**  
IBP1
**Product Information**

IGF-I (Insulin-like Growth Factor I), is a secreted mitogenic polypeptide and member of the insulin gene family, produced primarily by the liver, which effects a wide range of cells and plays a key role in cell proliferation and growth, inhibition of apoptosis, and is linked with tumour cell growth.

IGF-I signals through binding to the type 1 insulin-like growth factor receptor (IGF-1R) and also to the insulin receptor (IR), resulting in the activation of the AKT signalling pathway. IGF-I production is stimulated by growth hormone (GH), and can be hindered by GH insensitivity, deficiency in GH receptors or a malfunction in the post GH receptor signalling pathway.

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protein Molecular Weight</td>
<td>7.6 kDa</td>
</tr>
<tr>
<td>Activity</td>
<td>The ED_{50} was determined by a cell proliferation assay using FDC-P1 cells is &lt; 2.0 ng/ml, corresponding to a specific activity of &gt; 5 x 10^5 units/mg.</td>
</tr>
<tr>
<td>Purity</td>
<td>&gt;98% by SDS PAGE/HPLC</td>
</tr>
</tbody>
</table>

**References**


**Storage**

Prior to reconstitution store at +4°C.

After reconstitution store at -20°C.

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

**Guarantee**

3 months from date of reconstitution

**Health And Safety Information**

Material Safety Datasheet documentation #10268 available at:


**Regulatory**

For research purposes only