

# GMP Recombinant Porcine IGF1 Protein, His-Tagged

**Cat. No.** IGF1-01P    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | GMP Recombinant Porcine IGF1 Protein, His-Tagged was expressed in Escherichia coli cell-derived in an animal component free process under cGMP guidelines.                                                                                                                                                                                                                     |
| <b>Species</b>          | Porcine                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | Insulin-like growth factor 1 (IGF-1), also called somatomedin C, is a protein that in humans is encoded by the IGF1 gene. IGF-1 is a hormone similar in molecular structure to insulin. It plays an important role in childhood growth and continues to have anabolic effects in adults. A synthetic analog of IGF-1, mecasermin, is used for the treatment of growth failure. |
| <b>Form</b>             | Lyophilized                                                                                                                                                                                                                                                                                                                                                                    |
| <b>AA Sequence</b>      | MGPETLCGAELVDALQFVCGDRGFYFNKPTGYGSSSRRAPQTGIVDECCFRSCDL<br>RRLEMYCAPLKPAKSA with polyhistidine tag at the C-terminus                                                                                                                                                                                                                                                           |
| <b>Endotoxin</b>        | <0.1 EU per 1 µg of the protein by the LAL method.                                                                                                                                                                                                                                                                                                                             |
| <b>Purity</b>           | >98% as determined by SDS-PAGE. Ni-NTA chromatography                                                                                                                                                                                                                                                                                                                          |
| <b>Notes</b>            | Please use within one month after protein reconstitution.                                                                                                                                                                                                                                                                                                                      |
| <b>Storage</b>          | Lyophilized protein should be stored at -20°C. Upon reconstitution, protein aliquots                                                                                                                                                                                                                                                                                           |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

should be stored at -20°C or -80°C.

**Storage Buffer**

The protein was lyophilized from a solution containing 1X PBS, pH 8.0.

**Reconstitution**

It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

## GENE INFORMATION

**Gene Name**

IGF1 insulin like growth factor 1 [ *Sus scrofa* (pig) ]

**Official Symbol**

IGF1

**Synonyms**

IGF-1; IGF-I; Npt2B

**Gene ID**

397491

**mRNA Refseq**

NM\_214256.1

**Protein Refseq**

NP\_999421.1

**UniProt ID**

P16545

 Tel: 1-631-559-9269 1-516-512-3133

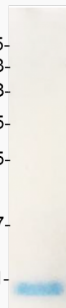
 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



kDa

75-  
63-  
48-  
35-  
25-  
17-  
11-



Tel: 1-631-559-9269 1-516-512-3133

Email: [info@creative-biomart.com](mailto:info@creative-biomart.com) Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA