

## Swine recombinant IGF-I (Insulin-like growth factor-I) protein, AF

Catalog Number: PROTP16545

### Overview

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| Product Name | Swine recombinant IGF-I (Insulin-like growth factor-I) protein, AF                                                                                                                                                                                                                                                                                                                                                                                                     |
| Description  | Insulin Like Growth Factors 1 (IGF-I) is a 7.79 kDa member of the Insulin-like Growth Factors with 71 amino acid residues. IGF-I is mainly expressed from liver, adipose tissue, cervi, endometrial stromal cells, leydig cells, and can be isolated from plasma. IGF-I is mediating the protein anabolic and promoting effect of pituitary growth hormone. IGF-I also affects metabolism of glycogen, DNA synthesis and glucose uptake via binding to IGF-I receptor. |
| Size         | 5ug,20ug                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Tag          | His Tag (C-term)                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Form         | Lyophilized                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Source       | Escherichia coli                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Formulation  | The protein was lyophilized from a 0.2 um filtered solution containing 1X PBS, pH 8.0. If you have any concerns or special requirements, please confirm with us.                                                                                                                                                                                                                                                                                                       |

### Storage

Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

### Purity

>98% as determined by SDS-PAGE.

### Molecular weight

The protein has a calculated MW of 8.59 kDa. The protein migrates below 11 kDa under reducing condition (SDS-PAGE analysis).

### Activity

Testing in process

### Endotoxin

<0.1 EU per 1 ug of the protein by the LAL method.

### **Amino Acid Sequence**

MGPETLCGAELVDALQFVCGDRGFYFNKPTGYGSSRRAPQTGIVDECCFRSCDLRRLEMYCAPLKPAKSA with polyhistidine tag at the C-terminus.

### **Reconstitution**

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration not less than 100 ug/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex!

Vigorous shaking may impair the biological activity of the protein.

## Usage

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