

## General Information

### Gene Name Synonym

IGF-I; Mechano growth factor; MGF; Somatomedin-C

### Protein Construction

A DNA sequence encoding the human IGF1 (P05019, E51R) (Gly49-Ala118) was expressed with a 13 amino acids (MFPAMPLSSLFVN) at its N-terminus.

### Organism

Human

### Expression Host

Yeast

## QC Testing

### Activity

Measured in a serum-free cell proliferation assay using MCF-7 human breast cancer cells. The ED<sub>50</sub> for this effect is typically 1.5-6 ng/mL.

### Purity

> 95% as determined by SDS-PAGE.

### Endotoxin

Please contact us for more information.

### Stability

Samples are stable for up to twelve months from date of receipt at -70°C

### Predicted N terminal

Met 1

### Molecular Mass

The recombinant human IGF1 consists of 83 amino acids and predicts a molecular mass of 9.1 kDa.

### Formulation

Lyophilized from sterile PBS, pH 7.4.

1. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA.
2. Please contact us for any concerns or special requirements.

## Usage Guide

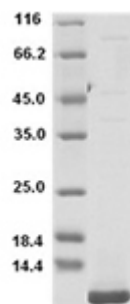
### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.

### SDS-PAGE



Human IGF1/IGF-I/IGF-1 Protein 15913