

## Recombinant Human GH1/Growth hormone 1 Protein

**Catalog Number: PKSH032513**

**Note:** *Centrifuge before opening to ensure complete recovery of vial contents.*

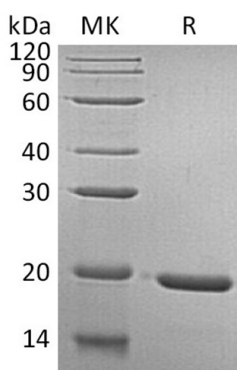
### Description

|                      |  |
|----------------------|--|
| <b>Species</b>       | Human  |
| <b>Source</b>        | E.coli-derived Human GH1;Growth hormone 1 protein Phe27-Phe217 |
| <b>Calculated MW</b> | 22.1 kDa   |
| <b>Observed MW</b>   | 20 kDa   |
| <b>Accession</b>     | P01241   |
| <b>Bio-activity</b>  | Not validated for activity                                     |

### Properties

|                       |  |
|-----------------------|--|
| <b>Purity</b>         | > 95 % as determined by reducing SDS-PAGE.   |
| <b>Endotoxin</b>      | < 1.0 EU per µg of the protein as determined by the LAL method.  |
| <b>Storage</b>        | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.  |
| <b>Shipping</b>       | This product is provided as lyophilized powder which is shipped with ice packs.  |
| <b>Formulation</b>    | Lyophilized from a 0.2 µm filtered solution of 20mM Tris-HCl, 150mM NaCl, 5% Trehalose, 5% Mannitol, 0.02% Tween 80, pH8.0.<br>Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual. |
| <b>Reconstitution</b> | Please refer to the printed manual for detailed information.   |

### Data



> 95 % as determined by reducing SDS-PAGE.

### Background

Growth hormone (GH); also known as somatotropin; is a member of a family of growth factors. It plays an important role in growth control. Its major role in stimulating body growth is to stimulate the liver and other tissues to secrete IGF-1. GH includes prolactin; placental lactogens; proliferins; and somatolactin. It is synthesized primarily by somatotropes in the anterior pituitary and is stored in secretory granules. It stimulates both the differentiation and proliferation of myoblasts. It also stimulates amino acid uptake and protein synthesis in muscle and other tissues.

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