

## Human Heregulin Beta 1, His Tag, E. coli

Catalog Number	LDG185PHE
Package	5 µg / 20 µg / 100 µg / Customized package

For full product information, images and publications, please visit [our website](#).



### Specifications

#### Species of Origin

Human

#### Affinity Tag

His Tag (C-term)

#### Purity

>95% as determined by SDS-PAGE analysis.

#### Activity

Measure by its ability to induce MCF-7 cells proliferation. The ED<sub>50</sub> for this effect is < 10 ng/mL.

#### Form

Lyophilized

#### Expression System

Escherichia coli

#### Storage Buffer

Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

#### Molecular weight

The protein has a calculated MW of 8.42 kDa. The protein migrates as 8 kDa under reducing condition (SDS-PAGE analysis).

#### Endotoxin Level

<1.0 EU per 1 µg of the protein by the LAL method.

### Background

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### Background

Neuregulin-1 (NRG-1, also called heuregulin1 or neu differentiation factor) is a glycoprotein that belongs to the neuregulins family. Structurally, Neuregulin-1 harbors tissue-specific N terminal sequence, followed by immunoglobulin-like (Ig-like) domains, an EGF-like domain, a transmembrane domain, and a cytoplasmic domain. NRG1 has multiple isoforms produced by alternative splicing. Heregulin-  $\beta$ 1 (HRG-  $\beta$ 1) is one of the isoforms, has been reported to engage the development and survival of cardiomyocytes derived from embryonic stem (ES) cells via activating MAPK-ERK and PI3K-AKT pathways. Moreover, HRG-  $\beta$ 1 plays a central role in promoting the proliferation of neuronal progenitors from embryonic neural stem cells.

### Uniprot ID

#Q02297-6

### Synonyms

NRG1 Beta 1, Heregulin- $\beta$ 1

### Sequence Note

Ser177-Glu241

## Instruction

### Reconstitution

It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration not less than 200  $\mu$ g/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

### Stability & Storage

This product is stable after storage at:

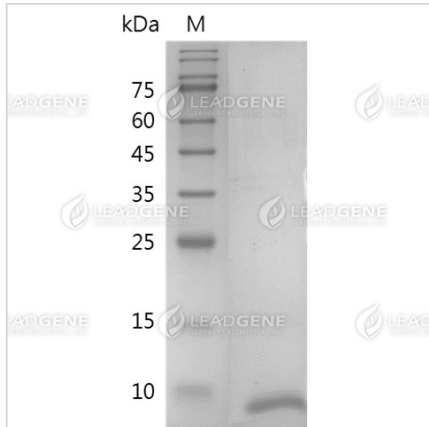
- -20°C for 12 months in lyophilized state from date of receipt.
- -20°C or -80°C for 1 month under sterile conditions after reconstitution.

Avoid repeated freeze/thaw cycles.

### Shipping

The product is shipped with polar packs. Upon receipt, store it immediately at -20°C or lower for long term storage.

Image



SDS-PAGE analysis of recombinant human Heregulin beta 1.

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