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

Expression system
Escherichia coli

Affinity Tag
His Tag (C-term)

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

Purity
>95% as determined by SDS-PAGE analysis.

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

Activity
Measure by its ability to induce MCF-7 cells proliferation. The ED_{50} for this effect is < 10 ng/mL.

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

Form
Lyophilized

Background

Tainan Headquarter
+886-6-2536677
bd@leadgene.com.tw

Innovation & Research Center
+886-2-27065528

CLD Center
+886-6-2536677

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- β1 (HRG- β1) 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- β1 plays a central role in promoting the proliferation of neuronal progenitors from embryonic neural stem cells.

Synonyms

NRG1 Beta 1, Heregulin-β1

Uniprot ID

#Q02297-6

Sequence Note

Ser177-Glu241

Instruction

Reconstitution

It is recommended to reconstitute the lyophilized protein in sterile H_2O to a concentration of 200 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

Shipping

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

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.

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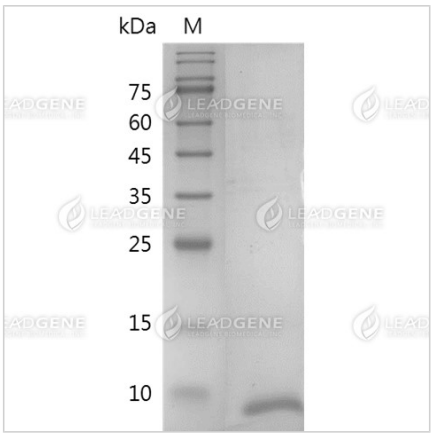
Image



SDS-PAGE analysis of recombinant human Heregulin beta 1.

Disclaimer : For Research Use or Further Manufacturing Only.

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