



Heregulin-\(\beta\)1, Human, Recombinant

Cat. No.: PCK373

General Information

Pro-neuregulin-1, Neuregulin-1 beta 1, NRG1-beta 1, HRG1-beta 1, EGF, NRG1, GGF, HGL, **Synonyms**

HRGA, NDF, SMDF, Heregulin-β1

Species Human **Expression host** E.coli

Sequence A DNA sequence encoding Human Heregulin Beta 1 Protein (#Q02297-6) (Ser177-Glu241)

was expressed with polyhistidine tag at the C-terminus.

Q02297-6 Accession

Tag His Tag (C-term)

Mol mass 8.42 kDa **Expiration date** 12 months

Bio activity Measure by its ability to induce MCF-7 cells proliferation. The ED for this effect is < 10

ng/mL.

Product feature

labscience >95% as determined by SDS-PAGE. Ni-NTA chromatography. **Purity**

Endotoxin (EU/µg)

Storage Lyophilized protein should be stored at -5~-20°C for 1 year. Upon reconstitution, store at 2-

> 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

-5~-20°C or -80°C for 3-6 months.

Shipping Ice bag

Formulation The protein was lyophilized from a 0.2 µm filtered solution containing 1 × PBS, pH8.0. Reconstitution It is recommended to reconstitute the lyophilized protein in sterile water to aconcentration

not less than 100 µg/mL. Do Not Vortex! Vigorous shaking may impair the biological

activity of the protein.

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-speci?c 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- β 1 (HRG- β 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-β1 plays a central role in promoting the by Elabscience proliferation of neuronal progenitors from embryonic neural stem cells.

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SDS-PAGE

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