

Human Heregulin beta-2 / Neuregulin-1

Synonyms: Neuregulin-1, NRG1, GGF, HGL, HRGA, NDF, SMDF, HRG, ARIA, GGF2, HRG1.

PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING

Size	Order #	Lot #	Expiry Date
10 µg	4495.950.010		
50 µg	4495.950.050		
1 mg	4495.950.199		

Please enquire for bulk quantities and other vial sizes

Description

Recombinant Human Neuregulin-1 beta 2 produced in *E.Coli* is a single, non-glycosylated, polypeptide chain containing 61 amino acids and having a total molecular mass of 7.0kDa.

- **Biological Activity** $\geq 2 \times 10^4$ IU/mg
- **Source** *E. Coli*
- **Purity** ≥ 96 % (SDS-PAGE, RP-HPLC)
- **Endotoxin level** ≤ 0.1 ng/µg (≤ 1 EU/µg)
- **Buffer** Lyophilized from a 0.2µm filtered solution in PBS, pH 7.4*
- **Physical state** Sterile filtered, lyophilized

Biological Activity

The ED₅₀ as determined by a cell proliferation assay using serum free human MCF-7 cells is less than 50ng/ml, corresponding to a specific activity of $> 2.0 \times 10^4$ IU/mg.

Reconstitution

We recommend a quick spin followed by reconstitution in sterile water to a concentration of at least 100 µg/ml, which can then be further diluted to other aqueous solutions. Do not vortex.

Stability

Lyophilized NRG1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Heregulin should be stored at 4°C between 2-7 days and for future use below -18°C. **Please avoid repeated freeze-thaw cycles.**

Amino Acid Sequence

SHLVKCAEKE KTFVCVNGGEC FMVKDLSNPS RYLCKCPNEF TGDRCQNYVM ASFYKAEELY Q

Usage: For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.

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