NRG1
Recombinant Human Neuregulin-1beta2 EGF-like domain

Catalog No.	CRN005A	**Quantity:**	10 µg
	CRN005B		50 µg
	CRN005C		1.0 mg

Alternate Names: ARIA, GGF, GGF2, HGL, HRG, HRG1, HRGA, NDF, SMDF, glial growth factor, heregulin, alpha (45kD, ERBB2 p185-activator), neu differentiation factor, neuregulin 1 isoform HRG-gamma, sensory and motor neuron derived factor

Description: Recombinant Human NRG1-β2 is a single non-glycosylated polypeptide chain containing 61 amino acids.
Background: Neuregulin is a signaling protein for ErbB2/ErbB4 receptor heterodimers on the cardiac muscle cells, playing an important role in heart structure and function through inducing ErbB2/ErbB4 receptor phosphorylation and cardiomyocyte differentiation. Research on molecular level discovered that recombinant neuregulin could make disturbed myocardial cell structure into order and strengthen the connection between myocardial cells by intercalated discs re-organization.

Gene ID: 3084

Source: *E. coli*

Molecular Weight: ~ 7.0 kDa

Formulation: Lyophilized from a 0.2 µm filtered solution in PBS, pH 7.4.

Purity: >96.0% by HPLC and SDS-PAGE

Endotoxin Level: Less than 1EU/µg of rHuNRG-1/HRG1beta as determined by LAL method.

Biological Activity: Fully biologically active when compared to standard. The ED_{50} determined by a cell proliferation assay using serum free human MCF-7 cells is less than 50 ng/ml, corresponding to a specific activity of > 2.0×10^4 IU/mg.

Amino Acid Sequence: SHLVKCAEKE KTFCVNGGEC FMVKDLSNPS RYLCKCPNEF TGDRCQNYVM ASFYKAEELY Q

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/mL. Further dilutions should be made in appropriate buffered solutions.

Storage & Stability: Stable at 2-8°C, but best kept desiccated -20°C. Upon reconstitution, stable for up to 1 week at 2-8°C. For longer term, store in working aliquots below -20°C. **Avoid repeated freeze/thaw cycles.**

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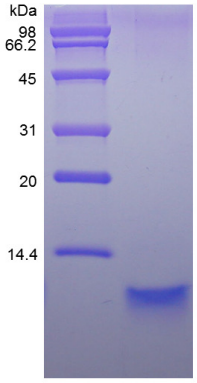
SDS-PAGE



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