

**Recombinant Human NRG-1  
(rhNRG-1)  
Catalog Number: 107-10**

<b>Description</b>	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.
<b>Synonyms</b>	ARIA, GGF, GGF2, HGL, HRG, HRG1, HRGA, MST131, NDF, SMDF
<b>AA Sequence</b>	SHLVKCAEKE KTFCVNGGEC FMVKDLSNPS RYLCKCPNEF TGDRQCQNYVM ASFYKAEELY Q
<b>Source</b>	<i>Escherichia coli</i>
<b>Molecular Weight</b>	Approximately 7kDa, a single non-glycosylated polypeptide chain containing 61 amino acids.
<b>Purity</b>	>96% by SDS-PAGE and HPLC analyses.
<b>Biological Activity</b>	Fully biologically active. Specific activity of $1.2 \times 10^4$ units/mg, as determined by human MCF-7 cell proliferation under serum-free conditions
<b>Physical Appearance</b>	White lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered solution (0.25mg/ml) in 20mM PB, pH 7.0, containing 0.5% HSA and 2% mannitol.
<b>Endotoxin</b>	< 1EU/ $\mu$ g of growth factor as determined by LAL method.
<b>Reconstitution</b>	Reconstitute in sterile distilled water containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL.
<b>Storage</b>	Store at -20°C after receiving. Upon reconstitution, store at 2-8°C for up to one week. For maximal stability, aliquot and store at -20°C. Avoid repeated freeze/ thaw cycles.
<b>Usage</b>	This product is for research use only. It is not approved for use in humans, animals, or <i>in vitro</i> diagnostic procedures.