

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

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