

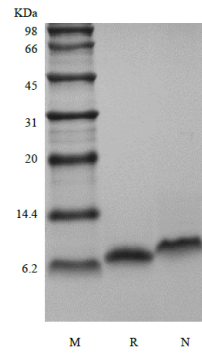
NRG1

Recombinant Human Neuregulin-1-beta2 EGF-like Domain

Catalog No.	CRN005A CRN005B CRN005C	Quantity:	10 µg 100 µg 500 µg
Alternate Names:	Pro-neuregulin-1, membrane-bound isoform, Pro-NRG1, Neuregulin-1		
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.		
UniProt ID:	Q02297		
Source:	<i>E. coli</i>		
Molecular Weight:	~7.0 kDa (61 aa) monomer		
Formulation:	Lyophilized from sterile-filtered PBS, pH 7.4		
Purity:	>96.0% by HPLC and SDS-PAGE		
Endotoxin Level:	< 1 EU/µg protein as determined by LAL method		
Biological Activity:	ED ₅₀ < 5.0 ng/ml, determined by dose-dependent cell proliferation assay using serum free human MCF-7 cells.		
Specific Activity:	> 2.0 × 10 ⁵ U/mg		
Amino Acid Sequence:	SHLVKCAEKE KTFVNGGEC FMVKDLSNPS RYLCKCPNEF TGDRQCQNYVM ASFYKAEELY Q		
Reconstitution:	Centrifuge the vial prior to opening. Reconstitute with sterile water at 0.1-1.0 mg/ml by gently pipetting to wash down the sides of the vial to ensure full recovery of the protein into solution. Do not vortex. Allow a few minutes for complete solubilization.		
Storage & Stability:	Lyophilized vial is shipped at ambient temperature. Immediately upon receipt, store unopened vial at -20°C (manual defrost freezer) or -80°C for up to 36 months. Upon reconstitution, prepare working aliquots and store at -20°C (manual defrost freezer) or -80°C. It is recommended that a carrier protein such as 0.1% HSA or BSA is added for long term storage. For short term storage reconstituted material is stable for 4-6 weeks when stored at 2-8°C. Avoid repeated freeze-thaw cycles.		



SDS-PAGE



NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



Cell Sciences®
65 Parker Street
Unit 11
Newburyport, MA 01950

Toll Free: 888-769-1246
Phone: 978-572-1070
Fax: 978-992-0298

E-mail: info@cellsciences.com
Website: www.cellsciences.com