

## Neuregulin-1/Heregulin-b1 Human Recombinant

<b>Item Number</b>	rAP-2691
<b>Synonyms</b>	Neuregulin-1, Heregulin-b1, NRG1-B1, NRG1 B1.
<b>Description</b>	Recombinant Human Neuregulin-1/Heregulin-b1 produced in E.Coli is a single, non-glycosylated, polypeptide chain (a.a 177-241) containing 65 amino acids and having a total molecular mass of 7.5kDa. NRG1-B1 is purified by proprietary chromatographic techniques.
<b>Uniprot Accesion Number</b>	
<b>Amino Acid Sequence</b>	SHLVKCAEKE KTFVCVNGGEC FMVKDLSNPS RYLCKCPNEF TGDRQCQNYVM ASFYKHLGIE FMEAE.
<b>Source</b>	Escherichia Coli.
<b>Physical Appearance and Stability</b>	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized NRG1-B1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution NRG1-B1 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.
<b>Formulation and Purity</b>	Lyophilized from a 0.2µm filtered solution in 1×PBS, pH 7.4 and 5% trehalose. Greater than 97.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
<b>Application</b>	
<b>Solubility</b>	It is recommended to reconstitute the lyophilized NRG1-B1 in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
<b>Biological Activity</b>	The ED50 was determined by the dose-dependent stimulation of the proliferation of human MCF-7 cells is less than 0.5ng/ml, corresponding to a specific activity of >2.0×10 <sup>6</sup> units/mg.
<b>Shipping Format and Condition</b>	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**