

Neuregulin-1/Heregulin Alpha (EGF Domain) Human Recombinant

Item Number	rAP-2692
Synonyms	Neuregulin-1, Heregulin Alpha, NRG1-A, NRG1 A.
Description	Recombinant Human Neuregulin-1/Heregulin Alpha (EGF Domain) produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 65 amino acids and having a total molecular mass of 7.4kDa. NRG1-A is purified by proprietary chromatographic techniques.
Uniprot Accession Number	
Amino Acid Sequence	SHLVKCAEKE KTFVCVNGGEC FMVKDLSNPS RYLCKCQPGF TGARCTENVP MKVQNQEKA ELYQK.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized NRG1-A although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution NRG1-A should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.
Formulation and Purity	Lyophilized from a 0.2µm filtered solution in 20mM PB, pH 6.0 and 150mM NaCl. Greater than 97.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized NRG1-A in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED50 was determined by the dose-dependent stimulation of the proliferation of human MCF-7 cells is less than 40 ng/ml, corresponding to a specific activity of > 2.5×10 ⁴ units/mg.
Shipping Format and Condition	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**