

## Recombinant Human NRG1

Cat No:HR2R1800

For research use only

### Overview

Quantity	50 ?g
Gene Symbol	NRG1
Gene ID	3084
Accession	Q02297
Alternative Name	Acetylcholine receptor-inducing activity, ARIA, Breast cancer cell differentiation factor p45, Glial growth factor, Heregulin, HRG, Neu differentiation factor, Sensory and motor neuron-derived factor Recombinant Human Neuregulin-1 Beta (NRG1)
Species	Human
Source	E. coli
Description	Neuregulins are EGF-like growth and differentiation factors that signal through tyrosine kinase receptors of the ErbB family. The ErbB2 and ErbB4 receptors cooperate in transmission of neuregulin-1 signals in the heart, whereas ErbB2 and ErbB3 cooperate in neural crest cells.
Functions	The ED(50) was determined by the dose-dependent proliferation of human MCF-7 cells was found to be &lt;math>0.3 \text{ ng/mL}</math>, corresponding to a specific activity of $2.0 \times 10^6 \text{ Units/mg}</math>.$
Formulation	Recombinant Neuregulin-1 was lyophilized from a 0.2 ?m filtered 10mM PB, pH 7.0, containing 2% mannitol, 0.5% HSA.
Solubility	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Appearance	Lyophilized Powder
Molecular Weight	7
Purity	>95% as determined by SDS-PAGE
Concentration	<math><1.0 \text{ EU/?g}</math> of recombinant protein as determined by the LAL method.
Shipping Condition	Ambient Temperature
Storage Condition	The lyophilized protein is stable for at least one year from date of receipt at $-70^{\circ}\text{C}</math>. Upon reconstitution, this cytokine can be stored in working aliquots at 2^{\circ} - 8^{\circ}\text{C}</math> for one month, or at -20^{\circ}\text{C}</math> for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.$