

## Recombinant Human NRG1-β2 Protein

### Product Information

Product Name	Cat#	Size
Recombinant Human NRG1-β2 Protein	92710ES10	10 μg
	92710ES50	50 μg
	92710ES60	100 μg
	92710ES76	500 μg
	92710ES80	1 mg

### Product Description

Neuregulin 1 or NRG1 is one of four proteins in the neuregulin family that act on the EGFR family of receptors. Nrg-1 has been shown to encode more than 14 soluble or transmembrane proteins. The extracellular domain of the transmembrane NRG1 isoforms can be proteolytically cleaved to release soluble growth factors. All NRG1 isoforms contain an EGF-like domain ( alpha - or beta -splice variant that differ in their C-terminal region) that is required for their direct binding to the ErbB3 or ErbB4 receptor tyrosine kinases.

### Product Properties

<b>Synonyms</b>	Heregulin-beta1, HRG1
<b>Accession</b>	Q02297
<b>GeneID</b>	3084
<b>Source</b>	E.coli-derived Human NRG1-β2, Ser177-Gln237.
<b>Molecular Weight</b>	Approximately 7.0 kDa.
<b>AA Sequence</b>	SHLVKCAEKE KTFVCVNGGEC FMVKDLSNPS RYLCKCPNEF TGDRQCQNYVM ASFYKAEELY Q
<b>Tag</b>	None
<b>Physical Appearance</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Purity</b>	> 96% by SDS-PAGE and HPLC analyses.
<b>Biological Activity</b>	The ED <sub>50</sub> as determined by a cell proliferation assay using serum free human MCF-7 cells is less than 5 ng/mL, corresponding to a specific activity of > 2.0 × 10 <sup>5</sup> U/mg. Fully biologically active when compared to standard.
<b>Endotoxin</b>	< 1.0 EU per 1 μg of the protein by the LAL method.
<b>Formulation</b>	Lyophilized from a 0.2 μm filtered solution in PBS, pH 7.4.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20°C. Further dilutions should be made in appropriate buffered solutions.

### Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C for 1 year.

1 month, 2 to 8 °C under sterile conditions after reconstitution.

3 months, -20 °C under sterile conditions after reconstitution.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

### **Cautions**

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only.