

Recombinant Human NRG1-alpha Protein

Product Information

Product Name	Cat#	Size
Recombinant Human NRG1-alpha Protein	92707ES10	10 µg
	92707ES60	100 µg
	92707ES76	500 µg

Product Description

The neuregulin family of structurally related glycoproteins comprises products from four distinct but related genes, Nrg-1, Nrg-2, Nrg-3, and Nrg-4. All NRG1 isoforms contain an EGF-like domain that is required for their direct binding to the ErbB3 or ErbB4 receptor tyrosine kinases. The ErbB3 or ErbB4 subsequently recruits and heterodimerizes with ErbB2, resulting in tyrosine phosphorylation and NRG1 signaling.

Product Properties

Synonyms	ARIA; GGF2; HGL; HRG; HRG1; MST131
Accession	Q02297
GeneID	3084
Source	E.coli-derived Human NRG1- α , Ser177-Lys241.
Molecular Weight	Approximately 7.4 kDa.
AA Sequence	SHLVKCAEKE KTFVNGGEC FMVKDLSNPS RYLCKCQPGF TGARCTENVP MKVQNQEKA ELYQK
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	> 97 % by SDS-PAGE and HPLC analyses.
Biological Activity	The ED ₅₀ as determined by a cell proliferation assay using serum free human MCF-7 cells is less than 40 ng/mL, corresponding to a specific activity of $> 2.5 \times 10^4$ IU/mg.. Fully biologically active when compared to standard.
Endotoxin	< 0.1 EU per 1µg of the protein by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered solution in 20 mM PB, pH 6.0, 150 mM NaCl.
Reconstitution	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 $\leq -20^\circ\text{C}$. 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. For your safety and health, please wear lab coats and disposable gloves for operation.
2. For research use only!