

Recombinant Human Pro-neuregulin-1/NRG1 (Alpha1) Protein

Catalog No.: RP00055 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 3084 Q02297

Tags

No tag

Synonyms

NRG1;ARIA;GGF;GGF2;HGL;HRG;HRG1;H RGA;MST131;MSTP131;NDF;NRG1-IT2;SMDF

Product Information

Source Purification

E. coli ≥ 95 % as
determined by SDSPAGE

Calculated MW Observed MW

7.38 kDa 8 kDa

Endotoxin

< 1 EU/µg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 µm filtered solution of 20mM Tris, 150mM NaCl, 5% glycerol, pH 8.0.Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

6		400-999-6126
\bowtie		cn.market@abclonal.com.cn
•	Τ	www.abclonal.com.cn

Background

The protein is a membrane glycoprotein that mediates cell-cell signaling and plays a critical role in the growth and development of multiple organ systems. An extraordinary variety of different isoforms are produced from this gene through alternative promoter usage and splicing. These isoforms are expressed in a tissue-specific manner and differ significantly in their structure, and are classified as types I, II, III, IV, V and VI.

Basic Information

Description

Active Recombinant Human Pro-neuregulin-1/NRG1 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Ser177-Lys241) of human NRG1-alpha/HRG1-alpha (Accession #NP_039258.1).

Bio-Activity

Measured in a serum-free cell proliferation assay using MCF-7 human breast cancer cells. The ED₅₀ for this effect is typically 6.2-24.7 ng/mL, corresponding to a specific activity of 4.0×10^4 - 1.61×10^5 units/mg.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20 $^{\circ}\text{C}$ for 3 months, at 2-8 $^{\circ}\text{C}$ for up to 1 week.

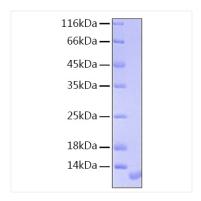
Avoid repeated freeze/thaw cycles.

Operational Notes

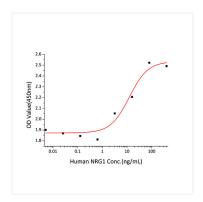
For your safety and health, please wear a lab coat and disposable gloves for handling.

^{*} DODOODOODOODOODOO

Validation Data



Recombinant Human Pro-neuregulin-1/NRG1 (Alpha1) Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Recombinant Human NRG1 stimulates cell proliferation of the MCF-7 human breast cancer cells. The ED $_{50}$ for this effect is typically 6.2-24.7 ng/mL, corresponding to a specific activity of 4.0×10^4 -1.61 $\times10^5$ units/mg.