

## NRG1-beta 1 Protein, Human (245a.a, HEK293, Fc)

Cat. No.:	HY-P73329
Synonyms:	Pro-neuregulin-1; Neuregulin-1; ARIA; HRG; NRG1; GGF; HGL; HRGA; NDF; SMDF
Species:	Human
Source:	HEK293
Accession:	Q02297-6 (S2-K246)
Gene ID:	3084
Molecular Weight:	58-83 kDa

### PROPERTIES

AA Sequence	<p>S E R K E G R G K G    K G K K K E R G S G    K K P E S A A G S Q    S P A L P P R L K E</p> <p>M K S Q E S A A G S    K L V L R C E T S S    E Y S S L R F K W F    K N G N E L N R K N</p> <p>K P Q N I K I Q K K    P G K S E L R I N K    A S L A D S G E Y M    C K V I S K L G N D</p> <p>S A S A N I T I V E    S N E I I T G M P A    S T E G A Y V S S E    S P I R I S V S T E</p> <p>G A N T S S S T S T    S T T G T S H L V K    C A E K E K T F C V    N G G E C F M V K D</p> <p>L S N P S R Y L C K    C P N E F T G D R C    Q N Y V M A S F Y K    H L G I E F M E A E</p> <p>E L Y Q K</p>
Biological Activity	<ol style="list-style-type: none"> <li>1. Measured by its binding ability in a functional ELISA. Immobilized Human ERBB3 His at 2 µg/mL (100 µl/well) can bind Human NRG1 Fc, the EC<sub>50</sub> of Human NRG1 Fc is 8-40 ng/mL.</li> <li>2. Measured by its binding ability in a functional ELISA. Immobilized Rhesus ERBB3 His at 2 µg/mL (100 µl/well) can bind Human NRG1 Fc, the EC<sub>50</sub> of Human NRG1 Fc is 20-80 ng/mL.</li> <li>3. Measured in a serum-free cell proliferation assay using MCF-7 human breast cancer cells. The ED<sub>50</sub> this effect is 0.1087-7.029 ng/mL, corresponding to a specific activity is 1.4227×10<sup>5</sup> - 9.20×10<sup>6</sup> units/mg.</li> </ol>
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4 or 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer. It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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