

Product Data Sheet

NRG1-beta 1 Protein, Human (246a.a, His)

Cat. No.:	HY-P70967
Synonyms:	Pro-neuregulin-1; Neuregulin-1 beta 1; NRG1-beta 1; HRG1-beta 1 ECD; NRG1; GGF; HGL; HRGA; NDF; SMDF;
Species:	Human
Source:	E. coli
Accession:	AAA58639.1 (M1-K246)
Gene ID:	3084
Molecular Weight:	Approximately 35.0 kDa

	PROPERTIES	
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	AA Sequence	MSERKEGRGK GKGKKKERGS GKKPESAAGS QSPALPPQLK EMKSQESAAG SKLVLRCETS SEYSSLRFKW FKNGNELNRK NKPQNIKIQK KPGKSELRIN KASLADSGEY MCKVISKLGN DSASANITIV ESNEIITGMP ASTEGAYVSS ESPIRISVST EGANTSSSTS TSTTGTSHLV KCAEKEKTFC VNGGECFMVK DLSNPSRYLC KCPNEFTGDR CQNYVMASFY KHLGIEFMEA EELYQK
	Appearance	Lyophilized powder
	Formulation	Lyophilized from a 0.2 μm filtered solution of 4 mM HCl or 50 mM Tris-HCL, 300 mM NaCl, 200 mM arginine, pH 8.0.
	Endotoxin Level	<1 EU/µg, determined by LAL method.
	Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ 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 (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
	Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

Pro-neuregulin-1, membrane-bound isoform (NRG1) is a direct ligand of the ERBB3 and ERBB4 tyrosine kinase receptors. Several isomers of NRG1 can induce the growth and differentiation of epithelial cells, glial cells, neuronal cells and skeletal muscle cells. The induced expression of acetylcholine receptors in synaptic vesicles during the formation of neuromuscular junction stimulates the germination and lactation of breast lobular alveoli and induces the differentiation of breast tumor cells. Stimulate Schwann cell proliferation; It affects the development of the heart muscle. NRG1 is also a ligand for integrins

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

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