

Heregulin-β1, Human, Recombinant

Cat. No. : PCK373

General Information

Synonyms	Pro-neuregulin-1, Neuregulin-1 beta 1, NRG1-beta 1, HRG1-beta 1, EGF, NRG1,
	GGF, HGL, HRGA, NDF, SMDF, Heregulin-β1
Species	Human
Expression host	E.coli
Sequence	A DNA sequence encoding Human Heregulin Beta 1 Protein (#Q02297-6)
	(Ser177-Glu241) was expressed with polyhistidine tag at the C-terminus.
Accession 110	Q02297-6
Tag Elabscie	His Tag (C-term)
Mol mass by D	8.42 kDa
Expiration date	12 months
Bio activity	Measure by its ability to induce MCF-7 cells proliferation. The ED ₅₀ for this effect is
	< 10 ng/mL.
Product feature	Price
Purity	> 95% as determined by SDS-PAGE. Ni-NTA chromatography.
Endotoxin	< 0.1 EU per 1 µg of the protein by the LAL method.
Storage	Store at -5~-20°C or -80°C for 6 months. Further dilute in a buffer containing a
	carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose
	solution), protein aliquots should be stored at -5~-20°C or -80°C for 3-6 months.
Shipping	Ambient temperature or ice pack.
Formulation	The protein was lyophilized from a 0.2 μ m filtered solution containing 1 \times PBS,
	pH8.0.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile water to a
Price	concentration not less than 100 μ g/mL. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.
by Elab	

Background

Neuregulin-1 (NRG-1, also called heuregulin1 or neu differentiation factor) is a glycoprotein that belongs to the neuregulins family. Structurally, Neuregulin-1 harbors tissue-specific N terminal sequence, followed by immunoglobulin-like (Ig-like) domains, an EGF-like domain, a transmembrane domain, and a cytoplasmic domain. NRG1 has multiple isoforms produced by alternative splicing. Heregulin-β1 (HRG-β1) is one of the isoforms, has been reported to engage the development and survival of cardiomyocytes derived from embryonic stem (ES) cells via activating MAPK-ERK and PI3K-AKT pathways. Moreover, HRG-β1 plays a central role in promoting the proliferation of neuronal progenitors from embryonic neural stem cells.



SDS-PAGE









