

Heregulin-β1, Human, Recombinant

Cat. No. : GPCK373

产品信息

别名	Pro-neuregulin-1; Neuregulin-1 beta 1; NRG1-beta 1; HRG1-beta 1; EGF; NRG1; GGF; HGL; HRGA; NDF; SMDF; Heregulin-β1
物种	Human
表达宿主	E.coli
序列信息	A DNA sequence encoding Human Heregulin Beta 1 Protein (#Q02297-6) (Ser177-Glu241) was expressed with polyhistidine tag at the C-terminus.
检索号	Q02297-6
标签	His Tag (C-term)
分子量	8.42 kDa
有效期	12 months
生物活性	Measure by its ability to induce MCF-7 cells proliferation. The ED for this effect is < 10 ng/mL.

产品特性

内毒素 (EU/μg)	< 0.1
保存	Lyophilized protein should be stored at -5~-20°C for 1 year. Upon reconstitution, store at 2-8°C for up to 1 week. 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.
运输	Ambient temperature or ice pack.
制剂	The protein was lyophilized from a 0.2 μm filtered solution containing 1 × PBS, pH8.0.
复溶	It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 μg/mL. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

背景介绍

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.

