

Heregulin-β1, Human, Recombinant

货号：PCK373

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
分子量	8.42 kDa
标签	His Tag (C-term)
生物活性	Measure by its ability to induce MCF-7 cells proliferation. The ED ₅₀ for this effect is < 10 ng/mL.

产品特性

纯度	>95% as determined by SDS-PAGE. Ni-NTA chromatography.
内毒素	<0.1 EU per 1 μg of the protein by the LAL method.
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.



复融

It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 $\mu\text{g}/\text{mL}$. 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- β 1 (HRG- β 1) 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- β 1 plays a central role in promoting the proliferation of neuronal progenitors from embryonic neural stem cells.

SDS-PAGE

