

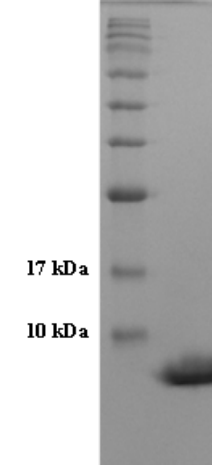
Neuregulin/Heregulin-1 β (NRG-1 β /HRG-1 β), human recombinant

CATALOG #:	4711-10	10 μ g
	4711-50	50 μ g
	4711-1000	1 mg
ALTERNATE NAMES:	NGR beta 1, Heregulin, HRG 1beta, Neuregulin	
SOURCE:	<i>E. coli</i>	
PURITY:	>98% by SDS-PAGE	
MOL. WEIGHT:	7.89 kDa (65 aa, 177-241)	
FORM:	Lyophilized	
FORMULATION:	Sterile Filtered lyophilized (freeze-dried) powder.	

RECONSTITUTION: Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 μ g/ μ l. The solution can then be diluted into other aqueous buffers and stored at -20°C for future use.

STORAGE CONDITIONS: The lyophilized protein is best-stored desiccated below 0°C. Reconstituted protein should be stored at working aliquots at -80°C. For long term storage it is recommended to add a carrier protein (0.1% HAS or BSA). Avoid freeze/thaw cycles.

DESCRIPTION: Neuregulin/Heregulin is a family of structurally related polypeptide growth factors derived from alternatively spliced genes (NRG1, NRG2, NRG3 and NRG4). To date, there are over 14 soluble and transmembrane proteins derived from the NRG1 gene. Proteolytic processing of the extracellular domain of the transmembrane NRG1 isoforms release soluble growth factors. HRG1- β 1 contains an Ig domain and an EGF-like domain that is necessary for direct binding to receptor tyrosine kinases erb3 and erb4. This binding induces erb3 and erb4 heterodimerization with erb2, stimulating intrinsic kinase activity, which leads to tyrosine phosphorylation. Although HRG1- β 1 biological effects is still unclear, it has been found to promote motility and invasiveness of breast cancer cells which may also involve up-regulation of expression and function of the autocrine motility-promoting factor (AMF). Recombinant human Heregulin- β 1 (HRG1- β 1) is a 7.5 kDa polypeptide consisting of only the EGF domain of heregulin- β 1 (65 amino acid residues).



SDS-PAGE (15%) of purified HRG1- β protein:
Lane 1: Marker.
Lane 2: HRG1- β protein (257-382 aa) – 20 μ g

RELATED PRODUCTS:

- Recombinant Human Heregulin β 2 (**Cat. No. 4730**)
- ErbB4/HER4 (His Tagged), Human Recombinant (**Cat. No. 7773**)

FOR RESEARCH USE ONLY! Not to be used on humans.