

Heregulin beta-1 Active Protein | NRG1 active protein

Human Heregulin beta-1

CATALOG # AAA79196	HOST E Coli	REACTIVITY Human
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PRODUCT SYNONYMS

Heregulin beta-1; Human Heregulin beta-1; NRG1; GGF; HGL; HRG; NDF; ARIA; GGF2; HRG1; HRGA; SMDF; MST131; NRG1 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Reactivity	Human
Purity/Purification	> 98% by SDS-PAGE and HPLC analysis
Form/Format	Lyophilized
Sequence	SHLVKCAEKE KTFVNGGEC FMVKDLSNPS RYLCKCPNEF TGDRCQNYVM ASFYKHLGIE FMEAE
Sequence Length	607
Endotoxin level	< 0.1ng/ug of protien (<1EU/ug).
Reconstitution	Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage it is recommended to further dilute in a buffer (eg PBS) containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.
Preparation and Storage	The lyophilized protein is stable at room temperature for 1 month and at 4°C for 6 months. Reconstituted working aliquots are stable for 1 week at 2-8°C and for 12 months at -20°C to -80°C.

ADDITIONAL INFORMATION

Related Product Information for NRG1 active protein	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-beta1 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-beta1 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-beta1 (HRG1-beta1) is a 7.5 kDa polypeptide consisting of only the EGF domain of heregulin-beta1 (65 amino acid residues).
Product Categories/Family for NRG1 active protein	Cytokines & Growth Factors

NCBI AND UNIPROT INFORMATION

NCBI GI #	236461509
NCBI GeneID	3084
NCBI Accession #	NP_001153467.1
NCBI GenBank Nucleotide #	NM_001159995.1

UniProt Accession #	Q02297; O14667; P98202; Q02298; Q02299; Q07110; Q07111; A5YAK4; A5YAK5; A8K1L2; B7Z4Z3; E9PHH4
Molecular Weight	7.5 kDa
NCBI Official Full Name	pro-neuregulin-1, membrane-bound isoform isoform HRG-beta1c
NCBI Official Synonym Full Names	neuregulin 1
NCBI Official Symbol	NRG1
NCBI Official Synonym Symbols	GGF; HGL; HRG; NDF; ARIA; GGF2; HRG1; HRGA; SMDF; MST131
NCBI Protein Information	pro-neuregulin-1, membrane-bound isoform; MSTP131; pro-NRG1; glial growth factor; neu differentiation factor; neuregulin 1 type IV beta 3; neuregulin 1 type IV beta 1a; sensory and motor neuron derived factor; heregulin, alpha (45kD, ERBB2 p185-activator)
UniProt Protein Name	Pro-neuregulin-1, membrane-bound isoform
UniProt Gene Name	NRG1
UniProt Synonym Gene Names	GGF; HGL; HRGA; NDF; SMDF; Pro-NRG1; ARIA; HRG
UniProt Entry Name	NRG1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-human-active-protein/hereregulin-beta-1/79196>