

NRG1/HRG1 active protein

Recombinant human NRG1/HRG1 protein

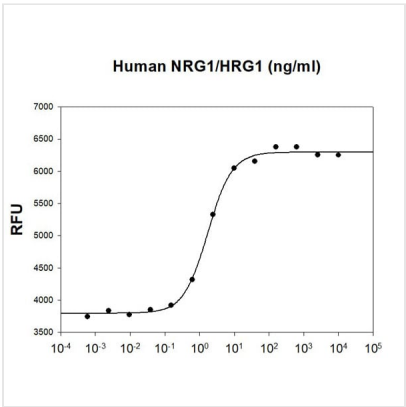
CATALOG # AAA48387	HOST Baculovirus	APPLICATIONS SDS-Page
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PRODUCT SYNONYMS

NRG1/HRG1; Recombinant human NRG1/HRG1 protein; NRG1; ARIA; GGF2; GGF; GGFglial growth factor; HGL; HGLneu differentiation factor; HRG; HRG1; HRGA; NRG-IT2; NRG1-IT2; HRG1-alpha; HRG1-beta 1; HRGaneuregulin 1 type IV beta 1a; Heregulin-1; MST131; MSTP131; NDFheregulin; alpha (45kD; ERBB2 p185-activator); Neuregulin-1; Neuregulin1; SMDf; neuregulin 1; neuregulin 1 type IV beta 3; pro-NRG1; pro-neuregulin-1; membrane-bound isoform; sensory and motor neuron derived factor; NRG1/HRG1 active protein

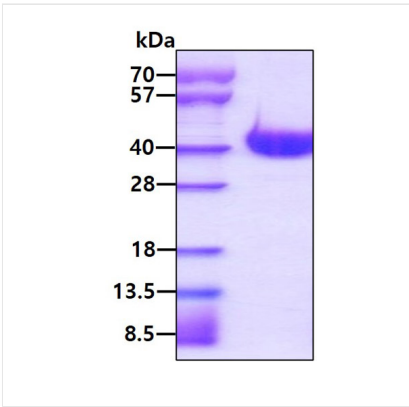
PRODUCT SPECIFICATIONS

Host	Baculovirus
Purity/Purification	>90% by SDS-PAGE
Form/Format	Liquid. In Phosphate-Buffered Saline (pH7.4) containing 10% glycerol
Concentration	0.5mg/ml (determined by Absorbance at 280nm) (varies by lot)
Sequence Positions	20-241aa
Sequence	SGKKP ESAAGSQSPA LPPRLKEMKS QESAAGSKLV LRCETSSEYS SLRFKWFKNQ NELNRKNKPQ NIKIQQKPGK SELRINKASL ADSGEYMCKV ISKLGNDAS ANITIVESNE IITGMPASTE GAYVSESPI RISVSTEGAN TSSSTSTSTT GTSHLVKCAE KEKTFVCVNGG ECFMVKDLSN PSRYLCKCPN EFTGDRCQNY VMASFYSTST PFLSLPE
Applicable Applications for NRG1/HRG1 active protein	Bioactivity, SDS-PAGE
Endotoxin	<1 EU per 1ug of protein (determined by LAL method)
Species	Human
Tag	His-Tag
Predicted N-term	Ala
Bioactivity	Measured in a cell proliferation assay using MCF7 human breast cancer cell. The ED50 range <= 15ng/ml.
Preparation and Storage	Can be stored at +2C to +8 degree C for 1 week. For long term storage, aliquot and store at -20C to -80 degree C. Avoid repeated freezing and thawing cycles.



Bioactivity

Human Proinsulin in a cell proliferation assay using MCF7 human breast cancer cell. The ED50 range



SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

ADDITIONAL INFORMATION

Related Product Information for NRG1/HRG1 active protein	Neuregulin-1 (NRG1), also known as ARIA, is one of four proteins in the neuregulin family that act on the EGFRfamily of receptors. It has multiple isoforms that aregenerated by usage of different promoters and alternative splicing of a single gene. This protein regulates multiple nervous system functions including axon guidance, synapse formation and plasticity, glial cell development, and axon myelination. In the heart, it regulates organ morphogenesis and contractility and also plays a cardioprotective role following tissue injury. NRG1 is essential for the development and function of multiple organ systems, and itsdysregulation has been linked to diseases such as cancer and schizophrenia. Recombinant human NRG1,fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatographytechniques.
Product Categories/Family for NRG1/HRG1 active protein	Neuroscience; Proteins
References	Tan W, et al. (2007). J Biol Chem. 282:24343-24351. Nicodemus KK, et al. (2010). Arch Gen Psychiatry. 67:991-1001.

NCBI AND UNIPROT INFORMATION

NCBI GI #	116006959
NCBI GeneID	3084
NCBI Accession #	NP_039252
NCBI GenBank Nucleotide #	NM_013958.3
UniProt Accession #	Q02297; O14667; P98202; Q02298; Q02299; Q07110; Q07111; A5YAK4; A5YAK5; A8K1L2; B7Z4Z3; E9PHH4
Molecular Weight	46,226 Da
NCBI Official Full Name	pro-neuregulin-1, membrane-bound isoform isoform HRG-beta3
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; MSTP131; NRG1-IT2
NCBI Protein Information	pro-neuregulin-1, membrane-bound isoform; glial growth factor; heregulin, alpha (45kD, ERBB2 p185-activator); neu differentiation factor; pro-NRG1; sensory and motor neuron derived factor
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/baculovirus-active-protein/nrg1-hrg1/48387>