Neuregulin 1 (NRG1) Recombinant Protein | NRG1 recombinant protein

Recombinant Neuregulin 1 (NRG1)

CATALOG #	HOST	APPLICATIONS
AAA134071	**E.coli**	**Western Blot, SDS-Page**

PRODUCT SYNONYMS

Neuregulin 1 (NRG1); Recombinant Neuregulin 1 (NRG1); NRG1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E.coli
Purity/Purification	> 95%
Form/Format	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin 300.
Concentration	Original Concentration: 200ug/mL (varies by lot)
Applicable Applications for NRG1 recombinant protein	WB (Western Blot), SDS-PAGE, Immunogen, Positive Control
Organism Species	Rattus norvegicus (Rat)
Source	Prokaryotic expression
Residues	Thr264~Gly393
Tags	N-terminal His Tag
Subcellular Location	Membrane, Secreted
Traits	Freeze-dried powder
Predicted isoelectric point	9.3
Phenomenon explanation	The possible reasons that the actual band size differs from the predicted are as follows: 1.Splice variants: Alternative splicing may create different sized proteins from the same gene. 2. Relative charge: The composition of amino acids may affects the charge of the protein. 3. Post-translational modification: Phosphorylation, glycosylation, methylation etc. 4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form. 5. Polymerization of the target protein: Dimerization, multimerization etc.
Usage	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	**Storage:** Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. **Stability Test:** The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration dateunder appropriate storage condition.

IMAGES

Gene Sequence

SDS-PAGE

NCBI AND UNIPROT INFORMATION

NCBI GI #	402794669
NCBI GeneID	112400
NCBI Accession #	NP_001258052.1
NCBI GenBank Nucleotide #	NM_001271123.1
UniProt Accession #	P43322; P43323; P43324; P43325; P43326; P43327; P43328
Molecular Weight	Predicted Molecular Mass: 15.7kDa Accurate Molecular Mass: 20/18kDa as determined by SDS-PAGE reducing conditions.
NCBI Official Full Name	pro-neuregulin-1, membrane-bound isoform isoform 6
NCBI Official Synonym Full Names	neuregulin 1
NCBI Official Symbol	Nrg1
NCBI Protein Information	pro-neuregulin-1, membrane-bound isoform; pro-NRG1; neuregulin 1 type III beta 3
UniProt Protein Name	Pro-neuregulin-1, membrane-bound isoform
UniProt Gene Name	**Nrg1**
UniProt Synonym Gene Names	Ndf; Pro-NRG1; ARIA; HRG
UniProt Entry Name	NRG1_RAT

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/nrg1-recombinant-protein-e-coli-wb-western-blot-sds-page-immunogen-positive-control/134071