

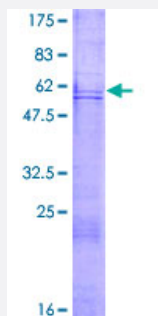
Full-Length

# NRG1 (Human) Recombinant Protein (P01)

Catalog # H00003084-P01

Size 25 ug, 10 ug

## Applications



## Specification

### Product Description

Human NRG1 full-length ORF ( NP\_039252.1, 1 a.a. - 241 a.a.) recombinant protein with GST-tag at N-terminal.

### Sequence

MSEKKEGRGKGKGKKKERGSGKKPESAAGSQSPALPPQLKEMKSQESAAGSKLVLCETSSE  
YSSLRFKWFKNGNELNRKNKPQNIQKKPGKSELRKASLADSGEYMCKVISKLGNDSASANITI  
VESNEITGMPASTEGAYVSSESPIRISVSTEGANTSSSTSTSTGTSHLVKCAEKEKTFCVNGGEC  
FMVKDLSNPSRYLCKCPNEFTGDRCQNYVMASFYSTSTPFLSLPE

### Host

Wheat Germ (in vitro)

### Theoretical MW (kDa)

52.5

### Preparation Method

[in vitro wheat germ expression system](#)

### Purification

Glutathione Sepharose 4 Fast Flow

### Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

### Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

### Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

### Note

Best use within three months from the date of receipt of this protein.

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — NRG1

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID       | <a href="#">3084</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| GeneBank Accession# | <a href="#">NM_013958.1</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Protein Accession#  | <a href="#">NP_039252.1</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Gene Name           | NRG1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Gene Alias          | ARIA, GGF, GGF2, HGL, HRG, HRG1, HRGA, NDF, SMDF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Gene Description    | neuregulin 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Omim ID             | <a href="#">142445 603013</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Gene Ontology       | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Gene Summary        | The protein encoded by this gene was originally identified as a 44-kD glycoprotein that interacts with the NEU/ERBB2 receptor tyrosine kinase to increase its phosphorylation on tyrosine residues. This protein is a signaling protein that mediates cell-cell interactions and plays critical roles in the growth and development of multiple organ systems. It is known that an extraordinary variety of different isoforms are produced from this gene through alternative promoter usage and splicing. These isoforms are tissue-specifically expressed and differ significantly in their structure, and thereby these isoforms are classified into types I, II, III, IV, V and VI. The gene dysregulation has been linked to diseases such as cancer, schizophrenia and bipolar disorder (BPD). [provided by RefSeq] |
| Other Designations  | glial growth factor heregulin, alpha (45kD, ERBB2 p185-activator) neu differentiation factor neuregulin 1 isoform HRG-gamma sensory and motor neuron derived factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

## Pathway

- [ErbB signaling pathway](#)

## Disease

- [Alzheimer disease](#)
- [Amphetamine-Related Disorders](#)
- [Anoxia](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Atrophy](#)
- [Attention](#)
- [Autistic Disorder](#)
- [Bipolar Disorder](#)
- [Cardiovascular Diseases](#)
- [Carotid Artery Diseases](#)
- [Chronic Disease](#)
- [Cognition](#)
- [Cognition Disorders](#)
- [Depressive Disorder](#)
- [Diabetes Mellitus](#)
- [Dominance](#)
- [Edema](#)
- [Extraversion \(Psychology\)](#)
- [Genetic Predisposition to Disease](#)
- [Hirschsprung Disease](#)
- [Infant](#)
- [Inhibition \(Psychology\)](#)
- [Intelligence Tests](#)
- [Leukomalacia](#)

- [Memory](#)
- [Mental Disorders](#)
- [Mental Recall](#)
- [Mental Retardation](#)
- [Neuropsychological Tests](#)
- [Neurotic Disorders](#)
- [Obstetric Labor Complications](#)
- [Perceptual Disorders](#)
- [Personality Tests](#)
- [Psychiatric Status Rating Scales](#)
- [Psychomotor Performance](#)
- [Psychoses](#)
- [Psychotic Disorders](#)
- [Reaction Time](#)
- [Recurrence](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Schizotypal Personality Disorder](#)
- [Space Perception](#)
- [Speech Disorders](#)
- [Startle Reaction](#)
- [Stress](#)
- [Task Performance and Analysis](#)
- [Tobacco Use Disorder](#)