Bioactive

NRG1 (Human) Recombinant Protein

Catalog # P3658 Size 50 ug

Specification

Product Description	Human NRG1 (Q02297, 177 a.a. - 237 a.a.) partial recombinant protein expressed in *Escherichia coli*.
Sequence	SHLVKCAEKEKTFCVNGGECFMVKDLSNPSRYLCKCPNEFTGDRCQNYVMASFYKHLGIEF
Host	Escherichia coli
Theoretical MW (kDa)	7
Form	Lyophilized
Preparation Method	*Escherichia coli* expression system
Purification	Ion exchange column and HPLC reverse phase column
Purity	> 90% by SDS-PAGE and HPLC
Endotoxin Level	< 0.1 ng/ug (1 EU/ug)
Activity	The ED_{50} was determined by the dose-dependent proliferation of human MCF-7 cells was found to be <0.3 ng/mL, corresponding to a specific activity of 2 x 10^6 units/mg.
Storage Buffer	Lyophilized from 10 mM PB, pH 7.0 (2% mannitol, 0.5% HAS)
Storage Instruction	Store at -20°C on dry atmosphere for 2 years. After reconstitution with deionized water, store at 4°C for 1 month or store at -20°C for 6 months. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

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Gene Info — NRG1

Entrez GeneID	3084
Protein Accession#	Q02297
Gene Name	NRG1
Gene Alias	ARIA, GGF, GGF2, HGL, HRG, HRG1, HRGA, NDF, SMDF
Gene Description	neuregulin 1
Omim ID	142445 603013
Gene Ontology	Hyperlink
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

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- 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

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- 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

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