

Active Recombinant Human NRG1 Protein, His-tagged

Cat. No. NRG1-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human NRG1 (20-241aa), fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
Protein Length	20-241 a.a.
Description	The protein encoded by this gene is a membrane glycoprotein that mediates cell-cell signaling and plays a critical role in the growth and development of multiple organ systems. An extraordinary variety of different isoforms are produced from this gene through alternative promoter usage and splicing. These isoforms are expressed in a tissue-specific manner and differ significantly in their structure, and are classified as types I, II, III, IV, V and VI. Dysregulation of this gene has been linked to diseases such as cancer, schizophrenia, and bipolar disorder (BPD).
Form	Liquid
Bio-activity	Measured in a cell proliferation assay using MCF7 human breast cancer cell. The ED50 range ≤ 15 ng/mL.
Molecular Mass	25.1kDa(231aa)

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AA Sequence	SGKKPESAAGSQSPALPPRLKEMKSQESAAGSKLVLRCESTSEYSSLRFKWFKNG NELNRKNKPQNIQKKPGKSELRLINKASLADSGEYMCKVISKLGNDSSASANITIVESN EIITGMPASTEGAYVSSSPIRISVSTEGANTSSSTSTSTTGTSHLVKCAEKEKTFVCVN GGECFMVKDLNPSRYLCKCPNEFTGDRCQNYVMASFYSTSTPFLSLPE
Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 90% by SDS-PAGE
Applications	SDS-PAGE, Bioactivity
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/mL (determined by Absorbance at 280nm)
Storage Buffer	In Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

GENE INFORMATION

Gene Name	NRG1 neuregulin 1 [Homo sapiens (human)]
Official Symbol	NRG1
Synonyms	NRG1; neuregulin 1; GGF; HGL; HRG; NDF; ARIA; GGF2; HRG1; HRGA; SMDF; MST131; MSTP131; NRG1-IT2; pro-neuregulin-1, membrane-bound isoform; acetylcholine receptor-inducing activity; glial growth factor 2; heregulin, alpha (45kD, ERBB2 p185-activator); neu differentiation factor; pro-NRG1; sensory and motor neuron derived factor
Gene ID	3084

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mRNA Refseq	NM_013958
Protein Refseq	NP_039252
MIM	142445
UniProt ID	Q02297
Biological Activity	Human Proinsulin in a cell proliferation assay using MCF7 human breast cancer cell. The ED50 range ≤ 15 ng/mL.
SDS-PAGE	3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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