Recombinant Human NRG1 Protein, His-tagged

Cat. No. NRG1-710H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NRG1, transcript variant GGF2, fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
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	Lyophilized from a 0.2 μM filtered solution of 4mM HCl
Molecular Mass	29kD
AA Sequence	MGSSHHHHHHSSGLVPRGSHMSERKEGRGKGKGKKKERGSGKKPESAAGSQSP ALPPQLKEMKSQESAAGSKLVLRCETSSEYSSLRFKWFKNGNELNRKNKPQNIKIQK KPGKSELRINKASLADSGEYMCKVISKLGNDSASANITIVESNEIITGMPASTEGAYVS SESPIRISVSTEGANTSSSTSTSTTGTSHLVKCAEKEKTFCVNGGECFMVKDLSNPS RYLCKCPNEFTGDRCQNYVMASFYKHLGI

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Endotoxin	Endotoxin level is <0.1 ng/μg of protein (<1EU/μg).
Purity	>95% as determined by SDS-PAGE and Coomassie blue staining
Concentration	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μg/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

GENE INFORMATION

Gene Name	NRG1 neuregulin 1 [Homo sapiens]
Official Symbol	NRG1
Synonyms	NRG1; neuregulin 1; HGL; pro-neuregulin-1, membrane-bound isoform; GGF; HRG; NDF; MSTP131; pro-NRG1; glial growth factor; neu differentiation factor; neuregulin 1 type IV beta 3; neuregulin 1 type IV beta 1a; sensory and motor neuron derived factor; heregulin, alpha (45kD, ERBB2 p185-activator); ARIA; GGF2; HRG1; HRGA; SMDF; MST131;
Gene ID	3084
mRNA Refseq	NM_001159995
Protein Refseq	NP_001153467
MIM	142445
UniProt ID	Q02297

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