

## Product datasheet for TP721214L

### NRG1 (NM\_013962) Human Recombinant Protein

#### Product data:

|                                       |   |
|---------------------------------------|---|
| Product Type:                         | Recombinant Proteins  |
| Description:                          | Purified recombinant protein of Human neuregulin 1 (NRG1), transcript variant GGF2  |
| Species:                              | Human   |
| Expression Host:                      | E. coli   |
| Expression cDNA Clone or AA Sequence: | Thr176-Lys246   |
| Tag:                                  | Tag Free  |
| Predicted MW:                         | 8.2 kDa   |
| Concentration:                        | lot specific  |
| Purity:                               | >95% as determined by SDS-PAGE and Coomassie blue staining  |
| Buffer:                               | Provided lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl   |
| Endotoxin:                            | Endotoxin level is < 0.1 ng/µg of protein (< 1 EU/µg)   |
| Reconstitution Method:                | Always centrifuge tubes before opening. Do not mix by vortex or pipetting. Dissolve the lyophilized protein in ddH <sub>2</sub> O. It is not recommended to reconstitute a concentration less than 100 µg/ml. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. |
| Storage:                              | Store at -80°C.   |
| Stability:                            | Stable for at least 6 months from date of receipt under proper storage and handling conditions.   |
| RefSeq:                               | <a href="#">NP_039256</a>   |
| Locus ID:                             | 3084  |
| UniProt ID:                           | <a href="#">Q02297</a>  |
| RefSeq Size:                          | 1986  |
| Cytogenetics:                         | 8p12  |
| RefSeq ORF:                           | 1266  |
| Synonyms:                             | ARIA; GGF; GGF2; HGL; HRG; HRG1; HRGA; MST131; MSTP131; NDF; NRG1-IT2; SMDF   |



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**Summary:**

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). [provided by RefSeq, Apr 2016]

**Protein Families:**

Druggable Genome, Secreted Protein, Transcription Factors, Transmembrane

**Protein Pathways:**

ErbB signaling pathway