

## Product Information

### **MemDX™ Membrane Protein Human NRG1 (Neuregulin 1) Expressed in *E.coli* with 6xHis and GST tag at the N-terminus for Antibody Discovery, Partial (75-176aa)**

Cat. No.: **MPX4206K**

This product is for research use only and is not intended for diagnostic use.

This product is a 42.2 kDa Human NRG1 membrane protein expressed in *E.coli*. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

#### Product Specifications

##### **Host Species**

Human

##### **Target Protein**

NRG1

##### **Protein Length**

Partial (75-176aa)

##### **Protein Class**

Growth factor

##### **Molecular Weight**

42.2 kDa

##### **TMD**

1

##### **Sequence**

NELNRKNKPQNIKIQQKPGKSELRINKASLADSGEYMCKVISKLGNDSASANITIVESNEIITGMPASTEGAYVSSSPIRISVSTEGAN

#### Product Description

##### **Expression Systems**

*E.coli*

##### **Tag**

6xHis and GST tag at the N-terminus

##### **Protein Format**

Soluble

##### **Form**

Liquid or Lyophilized powder

**Purity**

>85% as determined by SDS-PAGE.

**Buffer**

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

**Storage**

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

**Target****Target Protein**

NRG1

**Full Name**

Neuregulin 1

**Introduction**

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).

**Alternative Names**

NRG1; 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; Neuregulin 1

**Gene ID**

[3084](#)

**UniProt ID**

[Q02297](#)