

Neuregulin-4/NRG4 Protein, Human

| | |
|--------------------------|---|
| Cat. No.: | HY-P76524 |
| Synonyms: | Pro-neuregulin-4, membrane-bound isoform; Pro-NRG4; NRG-4 |
| Species: | Human |
| Source: | E. coli |
| Accession: | Q8WWG1 (GP&P2-F62) |
| Gene ID: | 145957 |
| Molecular Weight: | Approximately 6.7 kDa. |

PROPERTIES

| | |
|--------------------------------|---|
| AA Sequence | G P P T D H E E P C G P S H K S F C L N G G L C Y V I P T I P S P F C R C V E N Y T G A R C E E V F L P G S S I Q T K S N L F |
| Biological Activity | Measured in a cell proliferation assay using Raji human Burkitt's lymphoma cells. The ED ₅₀ for this effect is 0.0144 µg/mL, corresponding to a specific activity is 6.944×10 ⁴ units/mg. |
| Appearance | Lyophilized powder |
| Formulation | Lyophilized from a 0.2 µm filtered solution of 50 mM Tris, 50 mM NaCl, pH 7.2 or 20 mM PB, 150 mM NaCl, pH 7.4. |
| Endotoxin Level | <1 EU/µg, determined by LAL method. |
| Reconstitution | It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. |
| Storage & Stability | Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage. |
| Shipping | Room temperature in continental US; may vary elsewhere. |

DESCRIPTION

| | |
|-------------------|---|
| Background | Neuregulin-4 (NRG4), a low-affinity ligand for the ERBB4 tyrosine kinase receptor, acts as a signaling molecule that simultaneously recruits ERBB1 and ERBB2 coreceptors. This recruitment leads to ligand-stimulated tyrosine phosphorylation and subsequent activation of the ERBB receptors. Notably, NRG4 does not bind to the ERBB1, ERBB2, and ERBB3 receptors. It specifically interacts with the ERBB4 receptor, playing a role in mediating cellular responses through the activation of this particular receptor. |
|-------------------|---|

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA