

## Active Recombinant Human NGFR Protein

**Cat. No.** NGFR-169N    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <b>Product Overview</b> | Recombinant Human NGFR Protein without tag was expressed in HEK 293.                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>      | NGF Receptor, also known as Gp80-LNGFR, p75 ICD, CD271 and TNFRSF16, is a type I transmembrane protein belonging to the TNF receptor family. It is expressed by both neuronal and non-neuronal cells. Signaling through NGF Receptor has been shown to regulate gene expression, cell migration and death. A truncated NGF Receptor containing only the extracellular domain has been detected in plasma, amniotic fluid and urine, and acts as a potent NGF antagonist. |
| <b>Form</b>             | Sterile Filtered White lyophilized (freeze-dried) powder.                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Bio-activity</b>     | ED50 < 0.4 µg/mL, measured in a neutralization assay using TF-1 cells in the presence of 10 ng/mL human b-NGF.                                                                                                                                                                                                                                                                                                                                                           |
| <b>Molecular Mass</b>   | 32-60 kDa, observed by reducing SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>AA Sequence</b>      | KEACPTGLYTHSGECCKACNLGEGVAQPCGANQTVCEPCLDSVTFSDVVSATEPC<br>KPCTECVGLQSMSAPCVEADDAVCRCAYGYYQDETTGRCEACRVCEAGSGLVFSC<br>QDKQNTVCEECPDGTYSDEANHVDPCLPCTVCEDTERQLRECTRWADAECEEIPG<br>RWITRSTPPEGSDSTAPSTQEPEAPPEQDLIASTVAGVVTTVMGSSQPVVTRGTTD<br>N                                                                                                                                                                                                                           |

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| <b>Endotoxin</b>        | < 0.2 EU/μg, determined by LAL method.                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Purity</b>           | > 95% as analyzed by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Storage</b>          | Lyophilized recombinant human NGF Receptor remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, human NGF Receptor should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.                                                                                                                                                                            |
| <b>Storage Buffer</b>   | Lyophilized after extensive dialysis against PBS.                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Reconstitution</b>   | Reconstituted in ddH <sub>2</sub> O or PBS at 100 μg/mL.                                                                                                                                                                                                                                                                                                                                                               |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Gene Name</b>        | NGFR nerve growth factor receptor [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Official Symbol</b>  | NGFR                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Synonyms</b>         | NGFR; nerve growth factor receptor; nerve growth factor receptor (TNFR superfamily, member 16); tumor necrosis factor receptor superfamily member 16; CD271; low affinity nerve growth factor receptor; p75NTR; TNFR superfamily; member 16; TNFRSF16; p75 ICD; NGF receptor; TNFR superfamily, member 16; low affinity neurotrophin receptor p75NTR; low-affinity nerve growth factor receptor; p75(NTR); Gp80-LNGFR; |
| <b>Gene ID</b>          | 4804                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>mRNA Refseq</b>      | NM_002507                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Protein Refseq</b>   | NP_002498                                                                                                                                                                                                                                                                                                                                                                                                              |

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