

# Active Recombinant Canine NRG1

**Cat. No.** NRG1-178C    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | A DNA sequence encoding the canine NRG1 isoform alpha (XP_858147.1) extracellular domain (Ser19-Lys240) was expressed with five amino acids (DDDDK) at the C- terminus.                                                              |
| <b>Species</b>          | Canine                                                                                                                                                                                                                               |
| <b>Source</b>           | Human Cells                                                                                                                                                                                                                          |
| <b>ProteinLength</b>    | Ser19-Lys240                                                                                                                                                                                                                         |
| <b>Form</b>             | Lyophilized from sterile PBS, pH7.4.                                                                                                                                                                                                 |
| <b>Bio-activity</b>     | Measured by its binding ability in a functional ELISA. Immobilized canine NRG1 at 10 µg/ml (100 µl/well) can bind human ErbB4-Fc, The EC50 of human ErbB4-Fc is 0.19-0.43 µg/ml.                                                     |
| <b>Molecular Mass</b>   | The recombinant canine NRG1 comprises 228 amino acids and has a predicted molecular mass of 24.7 kDa. The apparent molecular mass of the protein is approximately 47 kDa in SDS-PAGE under reducing conditions due to glycosylation. |
| <b>Endotoxin</b>        | < 1.0 eu per µg of the protein as determined by the LAL method.                                                                                                                                                                      |
| <b>Purity</b>           | >95 % as determined by SDS-PAGE                                                                                                                                                                                                      |
| <b>Stability</b>        | Samples are stable for up to twelve months from date of receipt at -70°C                                                                                                                                                             |

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**Storage**

Store it under sterile conditions at -70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

**Reconstitution**

Hardcopy of COA with reconstitution instruction is sent along with the products.

**GENE INFORMATION****Gene Name**

NRG1 neuregulin 1 [ *Canis lupus familiaris* ]

**Official Symbol**

NRG1

**Synonyms**

NRG1; neuregulin 1; pro-neuregulin-1, membrane-bound isoform;

**Gene ID**

482861

**Pathway**

ErbB signaling pathway, organism-specific biosystem; ErbB signaling pathway, conserved biosystem;

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