

Active Recombinant Canine NRG1

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

SPECIFICATION

Product Overview	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.
Species	Canine
Source	Human Cells
ProteinLength	Ser19-Lys240
Form	Lyophilized from sterile PBS, pH7.4.
Bio-activity	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.
Molecular Mass	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.
Endotoxin	< 1.0 eu per µg of the protein as determined by the LAL method.
Purity	>95 % as determined by SDS-PAGE
Stability	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.
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Reconstitution	Hardcopy of COA with reconstitution instruction is sent along with the products.
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GENE INFORMATION

Gene Name	NRG1 neuregulin 1 [<i>Canis lupus familiaris</i>]
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Official Symbol	NRG1
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Synonyms	NRG1; neuregulin 1; pro-neuregulin-1, membrane-bound isoform;
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Gene ID	482861
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Pathway	ErbB signaling pathway, organism-specific biosystem; ErbB signaling pathway, conserved biosystem;
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