

Active Recombinant Canine NRG1 Protein

Cat. No. NRG1-1050C Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant 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	HEK293
ProteinLength	19-240 a.a.
Predicted N Terminal	Ser 19
Form	Lyophilized from sterile PBS, pH 7.4, 5%~8% trehalose and mannitol.
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.

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Stability	Samples are stable for up to twelve months from date of receipt at -70°C.
Storage	Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	NRG1 neuregulin 1 [<i>Canis lupus familiaris</i>]
Official Symbol	NRG1
Synonyms	pro-neuregulin-1, membrane-bound isoform
Gene ID	482861
mRNA Refseq	
Protein Refseq	
MIM	
UniProt ID	
Chromosome Location	chromosome: 16
Pathway	ARMS-mediated activation, organism-specific biosystem; Cytokine Signaling in Immune system, organism-specific biosystem; Downstream signal transduction, organism-specific biosystem

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