

Recombinant Rat Nrg1 Protein, His&GST-tagged

Cat. No. Nrg1-1860R Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Nrg1 Protein (Gly13-Val259+LEHHHHHHHH) with N-His&GST tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Gly13-Val259+LEHHHHHHHH
Description	Enables receptor tyrosine kinase binding activity. Involved in several processes, including negative regulation of corticosterone secretion; positive regulation of Schwann cell proliferation; and response to progesterone. Located in extracellular space and synapse. Used to study sciatic neuropathy. Biomarker of diabetic neuropathy; median neuropathy; schizophrenia; and visual epilepsy. Human ortholog(s) of this gene implicated in several diseases, including bipolar disorder; cerebral malaria; dementia; middle cerebral artery infarction; and psychotic disorder (multiple). Orthologous to human NRG1 (neuregulin 1).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 56.86 kDa Accurate Molecular Mass: 62 kDa
Purity	> 90%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	Nrg1 neuregulin 1 [Rattus norvegicus (Norway rat)]
Official Symbol	Nrg1
Synonyms	NRG1; neuregulin 1; pro-neuregulin-1, membrane-bound isoform; pro-NRG1; neuregulin 1 type III beta 3;
Gene ID	112400
mRNA Refseq	NM_031588
Protein Refseq	NP_113776
UniProt ID	P43322

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