

Recombinant Rat Nog Protein, His&GST-tagged

Cat. No. Nog-1834R Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Nog Protein (Met28-Cys144) with N-His&GST tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Met28-Cys144
Description	Predicted to enable cytokine binding activity and protein homodimerization activity. Involved in several processes, including hippocampus development; learning or memory; and regulation of gliogenesis. Located in axon and extracellular space. Part of protein-containing complex. Biomarker of acute kidney tubular necrosis and type 2 diabetes mellitus. Human ortholog(s) of this gene implicated in Huntington's disease; cleft lip; dysostosis (multiple); hyperopia; and proximal symphalangism (multiple). Orthologous to human NOG (noggin).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 43.6 kDa Accurate Molecular Mass: 44 kDa
Purity	> 90%
Applications	Cell culture; Activity Assays.

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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	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

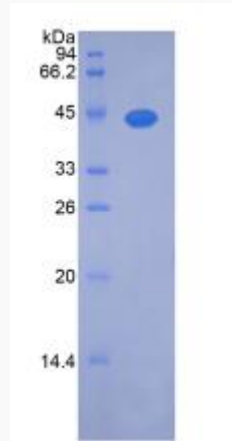
GENE INFORMATION

Gene Name	Nog noggin [<i>Rattus norvegicus</i> (Norway rat)]
Official Symbol	Nog
Synonyms	NOG; noggin;
Gene ID	25495
mRNA Refseq	NM_012990
Protein Refseq	NP_037122
UniProt ID	Q62809

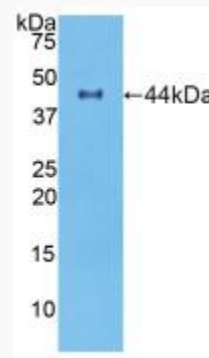
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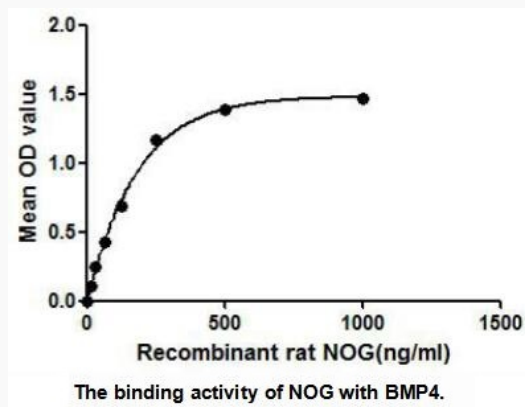
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Bioactivity



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The binding activity of NOG with BMP4.

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