

Recombinant Mouse Bdnf Protein, His-tagged

Cat. No. Bdnf-310M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Bdnf Protein (Glu139-Arg249) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Glu139-Arg249
Description	The protein encoded by this gene is a member of the nerve growth factor family. It is involved in the growth, differentiation and survival of specific types of developing neurons both in the central nervous system (CNS) and the peripheral nervous system. It is also involved in regulating synaptic plasticity in the CNS. Expression of a similar gene in human is reduced in both Alzheimer's and Huntington disease patients. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar processing to generate mature protein.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 42.6 kDa Accurate Molecular Mass: 45 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 sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

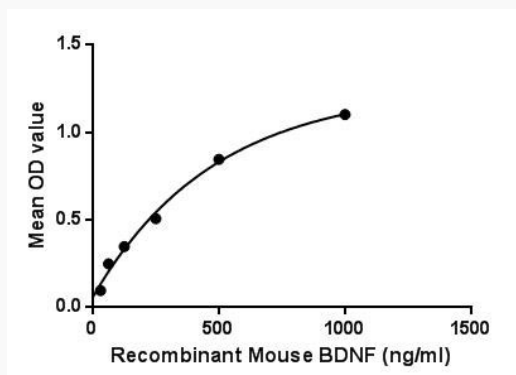
Gene Name	Bdnf brain derived neurotrophic factor [Mus musculus (house mouse)]
Official Symbol	Bdnf
Synonyms	BDNF; brain derived neurotrophic factor; brain-derived neurotrophic factor; anorexia BDNF
Gene ID	12064
mRNA Refseq	NM_001048139
Protein Refseq	NP_001041604
UniProt ID	P21237

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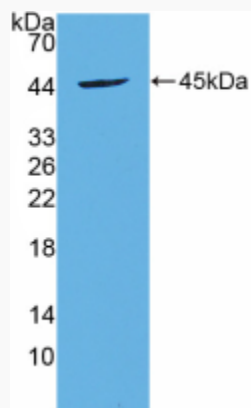
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Binding activity



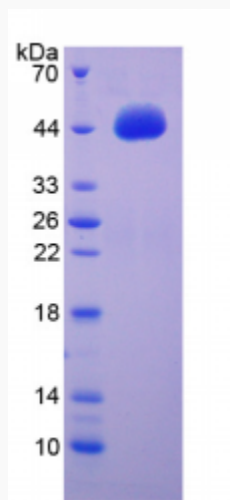
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