

Active Recombinant Mouse NGF protein, His-tagged

Cat. No. NGF-5233M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Mouse NGF protein(Q6LDU8)(85~307 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Mouse
Source	E.coli
ProteinLength	85-307 aa
Form	Lyophilized from sterile 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Bio-activity	Nerve Growth Factor (NGF) is the archetypal neurotrophin of a family of polypeptides .It has long occupied a critical role in developmental and adult neurobiology for its many important regulatory functions on the survival, growth and differentiation of nerve cells in the peripheral and central nervous system. The Caspase 3 (CASP3) is high affinity receptor for Nerve Growth Factorthus a functional binding ELISA assay was conducted to detect the interaction of recombinant mouse NGF and recombinant human CASP3. Briefly, NGF was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to CASP3-coated microtiter wells and incubated for 1h at 37°C. Wells were washed with PBST and incubated for 1h with anti-NGF pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37°C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Finally, add 50 μ stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant mouse NGF and recombinant human CASP3 was shown, the EC50 for this effect is 0.86 ug/mL.

Molecular Mass	29.8kDa
Endotoxin	<1.0EU per 1 μ g (determined by the LAL method).
Purity	> 90% as determined by SDS-PAGE.
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

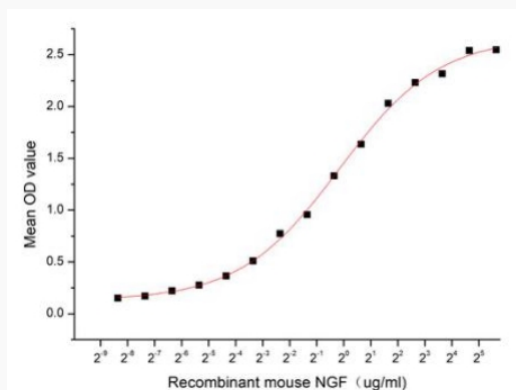
Gene Name	Ngf nerve growth factor [Mus musculus]
Official Symbol	NGF
Synonyms	NGF; nerve growth factor; beta-nerve growth factor; beta-NGF; nerve growth factor, beta; Ngfb;
Gene ID	18049
mRNA Refseq	NM_001112698
Protein Refseq	NP_001106168

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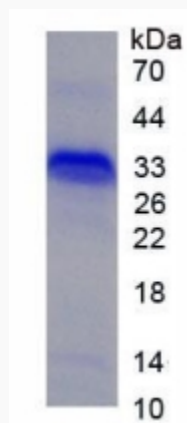
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Activity



SDS-PAGE



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