

Recombinant Human/Mouse/Rat BDNF Protein

Catalog No.: RP01243 Recombinant 1 Publications

Sequence Information

Species Gene ID Swiss Prot Human 627 P23560-1

Tags C-His

Synonyms

ANON2; BULN2; BDNF; BULN2

Product Information

Source Purification
E. coli > 95% by SDSPAGE.

Endotoxin

< 1.0 EU/ μ g of the protein by LAL method.

Formulation

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid votex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

Brain-derived neurotrophic factor (BDNF) is a member of the nerve growth factor family. The neurotrophin family is comprised of at least four proteins including NGF, BDNF, NT-3, and NT-4/5. These secreted cytokines are synthesized as prepropeptides that are proteolytically processed to generate the mature proteins. BDNF cDNA encodes a 247 amino acid residue precursor protein with a signal peptide and a proprotein that are cleaved to yield the 119 amino acid residue mature BDNF. The amino acid sequence of mature BDNF is identical in all mammals examined. BDNF binds with high affinity and specifically activates the TrkB tyrosine kinase receptor .

Basic Information

Description

Recombinant Human/Mouse/Rat BDNF Protein is produced by $E.\ coli$ expression system. The target protein is expressed with sequence (His129-Arg247) of human BDNF (Accession #NP_733929.1.) fused with an initial Met at the N-terminus and a $6\times$ His tag at the C-terminus.

Bio-Activity

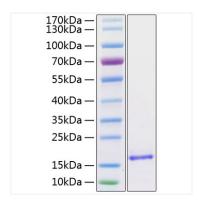
1.Measured by its binding ability in a functional ELISA.Immobilized Recombinant Human BDNF at 1 μ g/mL (100 μ L/well) can bind BDNF Rabbit mAb with a linear range of 0.4-2.15ng/mL.|2.Measured by its binding ability in a functional ELISA.Immobilized Recombinant Human TrkB at 2 μ g/mL (100 μ L/well) can bind Recombinant Human BDNF with a linear range of 1.95-258 ng/mL.

Storage

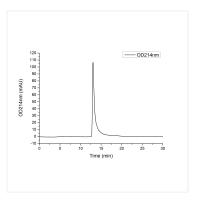
Store the lyophilized protein at -20 $^{\circ}$ C to -80 $^{\circ}$ C for long term. After reconstitution, the protein solution is stable at -20 $^{\circ}$ C for 3 months, at 2-8 $^{\circ}$ C for up to 1 week.

Avoid repeated freeze/thaw cycles.

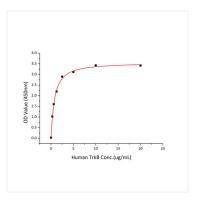
Validation Data



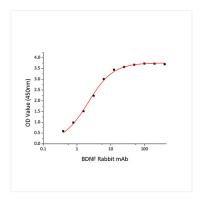
Recombinant Human/Mouse/Rat BDNF Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 17 kDa.



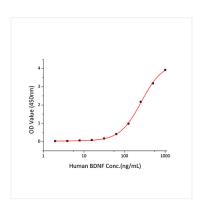
The purity of Recombinant Human/Mouse/Rat BDNF Protein (Cat.RP01243) was greater than 95% as determined by SEC-HPLC.



Immobilized Recombinant Human/Mouse/Rat BDNF Protein at 5 μ g/mL (100 μ L/well) can bind Recombinant Human TrkB with a linear range of 0.38-1.14 μ g/mL.



Immobilized Recombinant Human/Mouse/Rat BDNF Protein at 1 μ g/mL (100 μ L/well) can bind BDNF Rabbit mAb with a linear range of 0.4-2.15ng/mL.



Immobilized Recombinant Human TrkB at 2 μ g/mL (100 μ L/well) can bind Recombinant Human BDNF with a linear range of 1.95-258ng/mL.