9051 Mira Mesa Blvd, #910094
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BDNF Human

Brain-Derived Neurotrophic Factor Human Recombinant
NTR0005

Product Overview

Name	BDNF Human
Description	
Brain-Derived Neurotrophic Factor Human Recombinant	
Accession (Primary)	P23560
Synonyms	
Brain-Derived Neurotrophic Factor, BDNF, MGC34632, Abrineurin, ANON2, BULN2.	
Introduction	
BDNF promotes the survival of neuronal populations that are all located either in the central nervous system or directly connected to it. BDNF is a major regulator of synaptic transmission and plasticity at adult synapses in many regions of the cns. The versatility of BDNF is emphasized by its contribution to a range of adaptive neuronal responses including long-term potentiation (ltp), long-term depression (ltd), certain forms of short-term synaptic plasticity, as well as homeostatic regulation of intrinsic neuronal excitability.	
Source	
HEK293 Cells.	
Physical Appearance	
Filtered White lyophilized (freeze-dried) powder.	
Formulation	
BDNF filtered (0.4 µm) and lyophilized from 0.5mg/ml in PBS.	
Stability	
Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C.	
Purity	
Greater than 95.0% as determined by SDS-PAGE.	
Amino acid sequence	
APMKEANIRG QGGLAYPGVR THGTLESVNG PKAGSRGLTS LADTFEHVIE ELLDEDQKVR PNEENNKDAD LYTSRVMLSS QVPLEPPLLF LLEEYKNYLD AANMSMRVRR HHHHHH .	
Solubility	

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It is recommended to add deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely.

Precautions

BDNF Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P23560)

Background

Final Thoughts Although more research is needed on the safety and effectiveness of BDNF human recombinant, trials suggest that this laboratory-produced protein may be effective in managing and treating several neurological and psychiatric disorders. It's important for experts to stay up to date on the latest developments and research to learn more about potential risks and benefits.

References for protein:

Title :Generation of Neurons with Improved Cell Survival and Phenotype Maintenance Using a Degradation-Resistant Nurr1 Mutant † ‡ Publication :Article first published online: 11 JUN 2009 DOI: 10.1002/stem.146 Copyright © 2009 AlphaMed Press. Link : BDNF prospec publication