



Recombinant Human BDNF

Datasheet

Catalog Number: PR27080

Product Type: Recombinant Protein

Source: E. Coli

Amino Acid Sequence: The sequence of the first five N-terminal amino acids was determined and was found to be Met-His-Ser-Asp-Pro.

Description/Molecular Mass: Brain-derived Neurotrophic Factor Human Recombinant produced in E.Coli is a homodimer, non-glycosylated, polypeptide chain containing 2 x 119 amino acids and having a total molecular mass of 26,984 Dalton. BDNF Human Recombinant is purified by proprietary chromatographic techniques.

Protein Content: Protein quantitation was carried out by two independent methods:
1. UV spectroscopy at 280 nm using the absorbency value of 1.6 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics).
2. Analysis by RP-HPLC, using a standard solution of Brain-derived Neurotrophic Factor as a Reference Standard.

Purity: Greater than 96.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Analysis by SDS-PAGE.

Format: The protein was lyophilized after dialysis against 20mM sodium citrate buffer pH=5

Reconstitution: It is recommended to reconstitute the lyophilized Brain-derived Neurotrophic Factor in sterile 18M Ω -cm H₂O not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions.

Storage: Lyophilized BDNF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Brain-derived Neurotrophic Factor should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Please avoid freeze-thaw cycles.

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www.neuromics.com

Neuromics Antibodies • 5325 West 74th Street, Suite 8 • Edina, MN 55439
phone 866-350-1500 • fax 612-677-3976 • e-mail pshuster@neuromics1.com