

Product: Brain-derived Neurotrophic Factor, Human Recombinant
Catalog #: 11-BDNF
Amount: 5 µg

DESCRIPTION: Recombinant Human BDNF 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.
rHuBDNF is purified by proprietary chromatographic techniques.
The sequence of the first five N-terminal amino acids was determined and was found to be Met-His-Ser-Asp-Pro.

SOURCE: *E.Coli* Expression System

PURITY: Greater than 96.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Anion-exchange FPLC.
(c) Analysis by reducing and non-reducing SDS-PAGE Silver-Stained gel.

ENDOTOXIN: Less than 0.1 ng/µg (IEU/µg) of rHuBDNF.

DIMERS & AGREGATES: Less than 1% as determined by silver-stained SDS-PAGE gel analysis

FORM: Purified, in 20mM Sodium Citrate pH 5.0.

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 BDNF as a Reference Standard.

CONCENTRATION: 0.1 mg/ml

BIOLOGICAL ACTIVITY: rHuBDNF is fully biologically active when compared to standard.
The ED50, calculated by the dose-dependant induction of ACHE (acetylcholine esterase) in rat basal forebrain primary septal culture is 50 ng/ml.

STORAGE: -20°C (aliquot), avoid repeated freeze and thaw cycles

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