

# Human BDNF Recombinant Protein

## Product Details

Size	10 µg
Species	Human
Published Species	Rat, Human, Mouse
Expression system	E. coli
Amino acid sequence	Human BDNF recombinant protein is a homodimer containing two 120 amino acid subunits linked by hydrophobic interaction
Molecular weight	27 kDa
Class	Recombinant
Type	Protein
Purity	98% by SDS-PAGE and HPLC
Endotoxin concentration	<0.1 ng/µg
Activity	ED50 = 0.5 - 1.0 µg/mL; determined by the dose-dependent proliferation of rat C6 cells.
Conjugate	Unconjugated
Form	Lyophilized
Purification	sequential chromatography
Contains	no preservative
Storage conditions	-20°C

Applications	Tested Dilution	Publications
Western Blot (WB)	Assay-dependent	-
Immunohistochemistry (IHC)	Assay-dependent	-
ELISA (ELISA)	Assay-dependent	-
Functional Assay (FN)	Assay-dependent	5 Publications
Control (Ctrl)	Assay-dependent	-

## Product Specific Information

### Carrier-Free

**Reconstitution:** We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute BDNF in sterile, distilled water to a concentration of 0.1-1.0 mg/mL. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing carrier protein, such as 0.1% BSA and store in working aliquots from -20°C to -80°C.

**Storage:** The lyophilized protein is stable at room temperature for up to 1 month, but should be kept at -20°C for long term storage. Upon reconstitution, the preparation is stable for up to one week at 2°C to 8°C. Working aliquots stored with a carrier protein are stable for at least 12 months at -20°C to -80°C. Avoid repeated freeze-thaw cycles.

Functional Assay (5)

Neuroscience	Year 2020
Characterization of Human iPSC-derived Spinal Motor Neurons by Single-cell RNA Sequencing.	Species Human
Authors: Thiry L,Hamel R,Pluchino S,Durcan T,Stifani S	Dilution 10 ng/mL
Stem cell research & therapy	Year 2020
Generation of cortical neurons through large-scale expanding neuroepithelial stem cell from human pluripotent stem cells.	Species Human
Authors: Zhao S,Duan K,Ai Z,Niu B,Chen Y,Kong R,Li T	Dilution 10 ng/mL

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