

Active GMP Recombinant Human BDNF Protein

Cat. No. BDNF-113HG Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human BDNF, His129-Arg247, was produced in Sf 21 (baculovirus)-derived in an animal component free process under cGMP guidelines.
Species	Human
Source	Insect Cells
ProteinLength	129-247 a.a.
Form	Lyophilized from a 0.2 µm filtered solution in Sodium Citrate and NaCl.
Bio-activity	Measured in a cell proliferation assay using BaF mouse pro-B cells transfected with TrkB. The ED50 for this effect is 0.2-2 ng/mL. The specific activity of Recombinant Human/Mouse/Rat/Canine/Equine BDNF is approximately 1.3×10^3 units/µg, which is calibrated against recombinant human BDNF WHO Standard (NIBSC code: 96/534).
Molecular Mass	Predicted Molecular Mass: 13.5 kDa SDS-PAGE: 13-14 kDa, reducing conditions
N-terminal Sequence Analysis	His129-Ser-Asp-Pro-Ala-Arg-Arg-Gly-Glu-Leu
Endotoxin	<0.10 EU per 1 µg of the protein by the LAL method.

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Purity	>97%, by SDS-PAGE with silver staining, under reducing conditions.
Storage	Avoid repeated freeze-thaw cycles. 12 months, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	Reconstitute at 100 µg/mL in PBS.
Quality Statement	Our GMP proteins are produced according to relevant sections of the following documents: WHO TRS, No. 822, 1992 Annex 1, Good Manufacturing Practices for Biological Products; USP Chapter 1043, Ancillary Materials for Cell, Gene and Tissue-Engineered Products and USP Chapter 92, Growth Factors and Cytokines Used in Cell Therapy Manufacturing.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

GENE INFORMATION

Gene Name	BDNF brain-derived neurotrophic factor [Homo sapiens]
Official Symbol	BDNF
Synonyms	BDNF; brain-derived neurotrophic factor; neurotrophin; abrineurin; MGC34632;
Gene ID	627
mRNA Refseq	NM_001143805
Protein Refseq	NP_001137277

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MIM	113505
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UniProt ID	P23560
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