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Animal-Free Recombinant Human BDNF

Catalog # PBG10562

Specification

Animal-Free Recombinant Human BDNF - Product Information

Animal-Free Recombinant Human BDNF - Additional Information

Description
BDNF is a member of the NGF family of neurotrophic growth factors. Like other members of this family, BDNF supports neuron proliferation and survival. BDNF can bind to a low affinity cell surface receptor called LNGFR, which also binds other neurotrophins such as NGF, NT-3 and NT-4. However, BDNF mediates its neurotrophic properties by signaling through a high affinity cell surface receptor called gp145/trkB. BDNF is expressed as the C-terminal portion of a 247 amino acid polypeptide precursor, which also contains a signal sequence of 18 amino acid residue and a propeptide of 110 amino acid residues. Recombinant human BDNF is a 27.0 kDa homodimer of two 120 amino acid subunits linked by strong non-covalent interactions. Human and M BDNF sequences are identical.

BiologicalActivity
Determined by its ability to stimulate the proliferation of rat C6 cells. The expected ED50 for this effect is 0.5-1.0 µg/ml.

Authenticity
Verified by N-terminal and Mass Spectrometry analyses (when applicable).

Endotoxin
Endotoxin level is <0.1 ng/ µg of protein (<1EU/ µg).

Protein Content
Verified by UV Spectroscopy and/or SDS-PAGE gel.

Storage
-20°C

Precautions
Animal-Free Recombinant Human BDNF is for research use only and not for use in diagnostic or therapeutic procedures.

Animal-Free Recombinant Human BDNF - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence

- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Animal-Free Recombinant Human BDNF - Images