

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant BDNF, Human

Catalog Number: BK0184-5 μ g

Source: CHO

Quantity: 5 μ g

Description:

BDNF, also known as brain-derived neurotrophic factor and abrineurin, is a neurotrophin belonging to the NGF-beta family. It is expressed highly in the brain, and moderately in the heart, lung, skeletal muscle and placenta. BDNF signals through its high affinity receptor gp145/trkB to exert neurotrophic properties. It has been shown to be involved in the survival and differentiation of both the central and peripheral nervous system. Specifically, BDNF regulates synaptic transmission, axonal growth and path-finding, as well as dendritic growth and morphology.

Molecular Weight:

12-14kDa, observed by reducing SDS-PAGE.

Purity:

> 95% as analyzed by SDS-PAGE.

Biological Activity:

ED50<4 μ g/ml, measured in a bioassay using C6 cells.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

HSDPARRGELSVCDSEWVTAADKKTAVDMS-
GGTVTVLEKVPVSKGQLKQYFYETKCNPMGYT
KEGCRGIDKRHWNSQCRTTQSYV-
RALTMDSKKRIGWRFIRIDTSCVCTLTIKRGR

Endotoxin:

<0.2 EU/ μ g, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O or PBS at 100 μ g/ml.

Storage:

Lyophilized recombinant human BDNF remains stable up to 6 months at -80 $^{\circ}$ C from date of receipt. Upon reconstitution, human BDNF should be stable up to 1 week at 4 $^{\circ}$ C or up to 2 months at -20 $^{\circ}$ C.

Usage:

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