

Rev05  
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**DATASHEET**

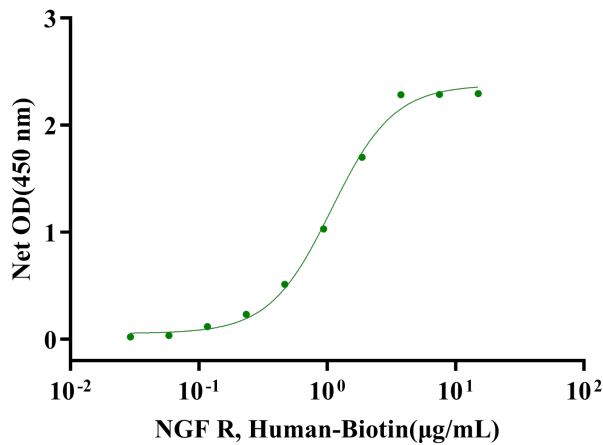
# BDNF, Human

Cat. No.: Z03208

## Product Introduction

<b>Species</b>	Human
<b>Protein Construction</b>	<b>BDNF (His129-Arg247) Accession # P23560</b>
<b>Purity</b>	> 95% as analyzed by SDS-PAGE
<b>Endotoxin Level</b>	< 0.2 EU/μg of protein by gel clotting method
<b>Biological Activity</b>	Immobilized Human BDNF at 5 μg/ml (100 μl/well) can bind NGF R, Human-Biotin with a linear range of 0.06-4 μg/ml.
<b>Expression System</b>	CHO
<b>Apparent Molecular Weight</b>	12~14 kDa, on SDS-PAGE under reducing conditions.
<b>Formulation</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH <sub>2</sub> O or PBS up to 100 μg/ml.
<b>Storage &amp; Stability</b>	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

## Examples



Immobilized Human BDNF at 5 µg/ml (100 µl/well) can bind NGF R, Human-Biotin with a linear range of 0.06-4 µg/ml.

## Background

**Target Background :** 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.

**Synonyms :** Brain-derived neurotrophic factor

**For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.**

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