

# Recombinant Human BDNF Protein (with pro peptide)

Catalog Number:PKSH033559



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

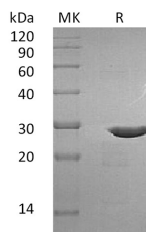
## Description

<b>Synonyms</b>	Brain-Derived Neurotrophic Factor;BDNF;Abrineurin
<b>Species</b>	Human
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Ala19-Arg247(R125A,R127A,R128A)
<b>Accession</b>	P23560
<b>Calculated Molecular Weight</b>	25.6 kDa
<b>Observed molecular weight</b>	28 kDa
<b>Tag</b>	None

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
<b>Shipping</b>	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C.
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of 20mM PB, 10% Trehalose, 100mM NaCl, 0.02% Tween 80, pH 6.0.
<b>Reconstitution</b>	Not Applicable

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

The precursor form of Brain-Derived Neurotrophic Factor (pro-BDNF) interacts preferentially with the pan-neurotrophin receptor p75 (p75NTR) and vps10p domain-containing receptor sortilin and induces neuronal apoptosis; whereas mature BDNF selectively binds with high affinity to the TrkB kinase receptor and promotes the survival; growth and differentiation of neurons. As proneurotrophins and mature neurotrophins elicit opposite biological effects; Pro-BDNF cleavage in the neuronal system is regulated in a specific and cell-context dependent manner. Pro-BDNF plays important role in negative regulation of neurotrophic actions in the brain.

## For Research Use Only

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