

Recombinant Human BDNF Protein (with pro peptide)

Catalog Number: PKSH033559

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

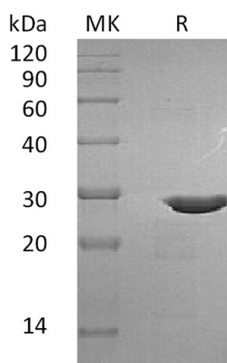
Description

Species	Human
Source	E.coli-derived Human BDNF protein Ala19-Arg247(R125A,R127A,R128A)
Calculated MW	25.6 kDa
Observed MW	28 kDa
Accession	P23560
Bio-activity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Concentration	Subject to label value.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	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.
Formulation	Supplied as a 0.2 µm filtered solution of 20mM PB, 10% Trehalose, 100mM NaCl, 0.02% Tween 80, pH 6.0.

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 vps 10p 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.