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proBDNF Human

Catalog #:CYPS-021

For research use only.

Description:proBDNF Human Recombinant produced in E.Coli is a single, non-glycosylated, non-covalently linked homodimer with each polypeptide chain containing 229 amino acids and having a molecular mass of 52kDa. The proBDNF is purified by proprietary chromatographic techniques.

Synonyms:proBDNF, Precursor Form Brain-derived Neurotrophic Factor.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Amino Acid Sequence: The sequence of the first five N-terminal amino acids was determined and was found to be Met-Ala-Pro-Met-Lys.

Purity: Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

Formulation:
proBDNF was lyophilized from a concentrated (0.5mg/ml) solution in 20mM PB, pH 8.0 and 500mM NaCl.

Stability:
Lyophilized proBDNF althoμgh stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution proBDNF should be stored at 4°C between 2-7 days and for future use below -18°C.Please prevent freeze-thaw cycles.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:
It is recommended to reconstitute the lyophilized proBDNF in sterile 18M-cm H2O not less than 100

Introduction:
proBDNF (the precursor form of Brain-derived neurotrophic factor) interacts preferentially with p75NTR (the pan-neurotrophin receptor p75) and vps10p domain-containing receptor sortilin and induces neuronal apoptosis, while the mature BDNF selectively binds with great affinity to the TrkB kinase receptor and promotes the survival, growth and differentiation of neurons. Since proneurotrophins and mature neurotrophins bring forth opposite biological effects, proBDNF cleavage in the neuronal system is regulated in a specific and cell-context dependent manner. proBDNF has an important role in negative regulation of neurotrophic actions in the brain.

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