Data Sheet (Cat.No.TMPJ-00134)

TargetMol

pro-BDNF Protein, Human, Recombinant

General Information

Synonyms:	Brain-Derived Neurotrophic Factor;Abrineurin;BDNF
Protein Construction:	Ala19-Arg247(R125A,R127A,R128A)
Species:	Human
Expression Host:	E. coli
Accession:	P23560
Molecular Weight:	28 KDa (reducing condition)
AA Sequence:	Ala19-Arg247(R125A,R127A,R128A)

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Supplied as a 0.2 μm filtered solution of 20 mM PB, 10% Trehalose, 100 mM NaCl, 0.02% Tween 80, pH 6.0.

Preparation and Storage

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein 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.

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