

pro-BDNF/BDNF, Human, Recombinant

Cat. No. : PCK084

General Information

Synonyms	Brain-Derived Neurotrophic Factor;BDNF;Abrineurin
Species	Human
Expression host	E.coli
Sequence	Ala19-Arg247 (R125A,R127A,R128A)
Accession	P23560
Mol mass	25.6 kDa
Expiration date	6 months

Product feature

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin (EU/μg)	< 0.1
Storage	Store at ≤-5~-20°C, stable for 6 months after receipt. Store at ≤-5~-20°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
Shipping	Ice bag
Formulation	Supplied as a 0.2 μm filtered solution of 20 mM Tris-HCl, 10% Trehalose, 10% Glycerol, 200 mM NaCl, 1 mM EDTA, 0.05% Tween80, pH 7.8.

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.

SDS-PAGE