

Recombinant Human ProBDNF

CATALOG NO:	4273-10	10 µg
	4273-50	50 µg
	4273-100	100 µg
ALTERNATE NAMES:	Brain-derived neurotrophic factor, BDNF, Abrineurin	
SOURCE:	<i>E coli</i> (Ala19 – Arg 247)	
PURITY:	≥ 95% by reducing SDS-PAGE	
MOL. WEIGHT:	~ 28 kDa (reducing conditions)	
FORMULATION:	Lyophilized from a 0.2 µm filtered solution of PBS, pH 8.0.	

RECONSTITUTION:

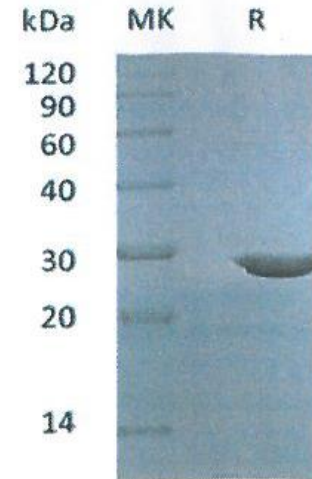
Dissolve in distilled water. It is not recommended to reconstitute to a final concentration less than 100 µg/ml. This can further be diluted to other aqueous buffers.

STORAGE CONDITIONS:

Lyophilized ProBDNF should be stored at < -20 °C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7 °C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. Avoid repeated freeze thaw cycles.

DESCRIPTION:

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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RELATED PRODUCTS:

- NGF-beta, human recombinant (**Cat. No. 4303R-10, 20, 1000**)
- NGF-beta, human recombinant (CHO) (**Cat. No. 4303-20, 1000**)
- NGF-beta, murine recombinant (**Cat. No. 4304-5, 10, 20, 1000**)
- Recombinant human ProNT-3 (**Cat. No. 4272-10, 50, 100**)
- Recombinant human ProNGF-3 (**Cat. No. 4274-10, 50, 100**)
- BDNF Antibody (**Cat. No. 5004- 100**)
- TrkA Antibody (**Cat. No. 3194- 100**)
- TrkA Blocking Peptide (**Cat. No. 3194BP- 50**)
- TrkB Antibody (**Cat. No. 3593- 100**)
- TrkB Blocking Peptide (**Cat. No. 3593BP- 50**)
- TrkA Antibody (**Cat. No. 3194- 100**)

FOR RESEARCH USE ONLY! Not to be used on humans.

