

## Recombinant Equine Brain-derived Neurotrophic Factor (BDNF)

**Cat. No.:** AP2F250

**Product Type:** Animal Proteins

**Size:** 50 µg

### Product Overview

BioVenic's Recombinant Equine Brain-derived Neurotrophic Factor (BDNF) is a recombinant protein expressed from E. coli expression system. Its predicted molecular weight is 13 kDa. The purity is greater than 95% (SDS-PAGE). The endotoxin level is <0.01 EU/µg (LAL).

### Specifications

Type	Recombinant Protein
Species	Equine
Expression System	E.coli Expression System
Purity	>95% (SDS-PAGE)
Endotoxin	<0.01 EU/µg (LAL)
Predicted Molecular Weight	13 kDa
Molecular Weight	14 kDa (reducing conditions)
Physical State	Lyophilized

### Target Information

Brain Derived Neurotrophic Factor is encoded by the *BDNF* gene in horses. BDNF is a member of the neurotrophin family that exerts its effects through neurotrophic tyrosine receptor kinase type 2. BDNF plays a crucial role in promoting neuronal survival, growth, and differentiation. Research has shown that BDNF and Ntrk2 are transcribed, translated, and conserved across mammalian species, including humans, mice, rats, pigs, horses, and bats.

Protein	Equine Brain-derived Neurotrophic Factor (BDNF)
Protein Synonym	Brain-Derived Neurotrophic Factor; BDNF; Abrineurin
Gene ID	<a href="#">100009689</a>
UniProt ID	<a href="#">Q0EAB7</a>

### Shipping and Storage

This product is shipped with dry ice. It is recommended to aliquote as needed and store at -20°C upon receipt. Reconstituted protein solution can be stored at 4°C for 1 week, at < -20°C for 3 months.

---

## User Note

Always centrifuge tubes before opening. Dissolve the lyophilized protein in distilled water. Avoid mixing by vortexing or pipetting. It is not recommended to reconstitute to a concentration < 100 µg/mL. Aliquote the reconstituted solution to minimise freeze-thaw cycles.

---

## Reference

Wessels, J. M. *et al.* The brain-uterus connection: brain derived neurotrophic factor (BDNF) and its receptor (Ntrk2) are conserved in the mammalian uterus. *PLoS one*. 2014, 9: e94036.

---

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.