

Recombinant Equine Brain Derived Neurotrophic Factor (BDNF), N-His

Cat. No.: AP7F54

Product Type: Animal Proteins

Size: 10 µg; 50 µg; 200 µg; 1 mg; 5 mg

Product Overview

BioVenic's Recombinant Equine Brain Derived Neurotrophic Factor (BDNF), N-His is a recombinant protein expressed from *E.coli* expression system. Its predicted molecular weight is 14.9 kDa. The purity is greater than 95% (SDS-PAGE). The endotoxin level is < 1 EU/µg (LAL). It can be used as a positive control or as an immunogen.

Specifications

Type	Recombinant Protein
Species	Equine
Expression System	<i>E.coli</i>
Purity	>95% (SDS-PAGE)
Endotoxin	<1 EU/µg (LAL)
Predicted Molecular Weight	14.9 kDa
Molecular Weight	16 kDa
Physical State	Lyophilized
Formulation	PBS, pH 7.4, containing 0.01% SKL, 5% Trehalose.

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	BDNF; Brain Derived Neurotrophic Factor; ANON2; BULN2; Abrineurin; neurotrophin
Gene ID	100009689
UniProt ID	Q0EAB7

Shipping and Storage

This product is shipped with dry ice. Avoid repeated freezing and thawing. Store for 4 weeks at 2-8°C, for 12 months at -80°C.

User Note

Always centrifuge tubes before opening. Avoid mixing by vortexing or pipetting. Reconstitute in 10 mM PBS (pH 7.4) to a concentration of 0.1-1.0 mg/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.