

Recombinant Canine Brain-derived Neurotrophic Factor (BDNF)

Cat. No.: AP2F248

Product Type: Animal Proteins

Size: 50 µg

Product Overview

BioVenic's Recombinant Canine 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	Canine
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 (BDNF) is a member of the neurotrophin family. BDNF promotes the survival, growth, and differentiation of neurons, BDNF is a significant regulator of synaptic transmission and plasticity at adult synapses in various regions of the CNS. BDNF's presence in both the brain and peripheral tissues makes it a promising candidate as a biomarker for evaluating animal welfare. A previous research suggests the potential of serum BDNF as a biomarker for anxiety-related disorders in dogs.

Protein	Canine Brain-derived Neurotrophic Factor (BDNF)
Protein Synonym	Brain-Derived Neurotrophic Factor; BDNF; Abrineurin
Gene ID	403461
UniProt ID	Q7YRB4

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.

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.