Human/Murine/Rat BDNF Protein

Cat. No. BDF-HE001

Description

Source	Recombinant Human/Murine/Rat BDNF Protein is expressed from E.coli without tag
	It contains His129-Arg247.
Accession	P23560-1
Molecular Weight	The protein has a predicted MW of 13.51 kDa. The protein migrates to 15-19 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE

Formulation and Storage

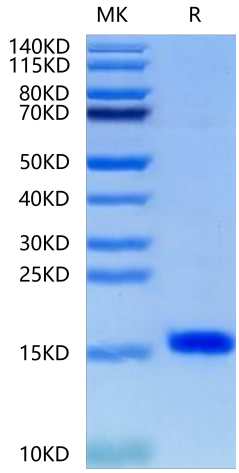
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

The brain-derived neurotrophic factor (BDNF) is a secretory growth factor that promotes neuronal proliferation and survival, synaptic plasticity and long-term potentiation in the central nervous system. Brain-derived neurotrophic factor biosynthesis and secretion are chrono-topically regulated processes at the cellular level, accounting for specific localizations and functions.

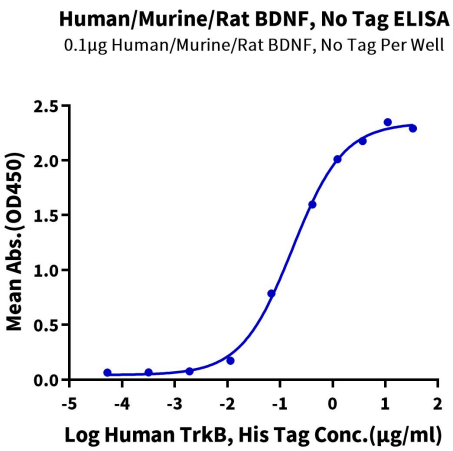
Assay Data

Tris-Bis PAGE



Human/Murine/Rat BDNF on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

ELISA Data



Immobilized Human/Murine/Rat BDNF, No Tag at 1μg/ml (100μl/well) on the plate. Dose response curve for Human TrkB, His Tag with the EC50 of 0.17μg/ml determined by ELISA.