

Human/Mouse/Rat BDNF Protein



Cat. No. BDF-HE001

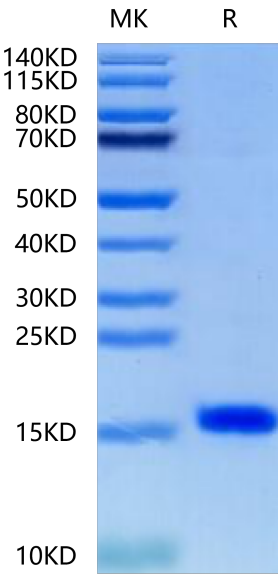
Description	
Source	Recombinant Human/Mouse/Rat BDNF Protein is expressed from E.coli without tag. It contains His129-Arg247(Human) / His131-Arg249(Mouse/Rat).
Accession	P23560-1(Human) / P21237-1(Mouse) / P23363(Rat)
Molecular Weight	The protein has a predicted MW of 13.51 kDa. The protein migrates to 15-19 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris 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	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months 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

Bis-Tris PAGE

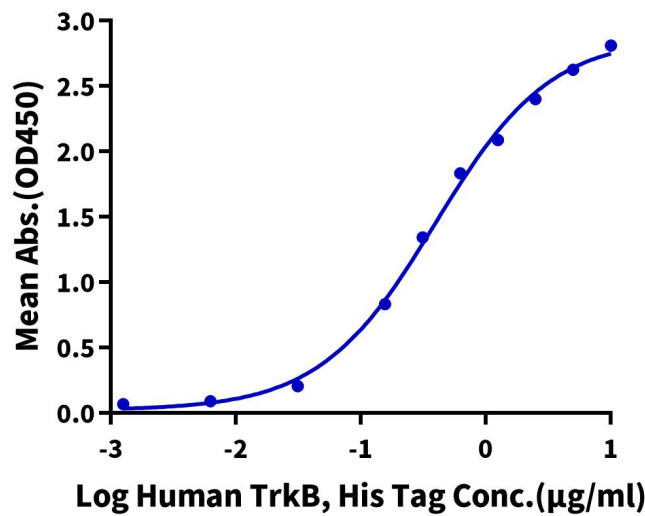


Human/Mouse/Rat BDNF on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

ELISA Data

Human/Mouse/Rat BDNF, No Tag ELISA

0.1µg Human/Mouse/Rat BDNF, No Tag Per Well



Immobilized Human/Mouse/Rat BDNF, No Tag at 1 µg/ml (100 µl/well) on the plate. Dose response curve for Human TrkB, His Tag with the EC50 of 0.39 µg/ml determined by ELISA (QC Test).