PRODUCT INFORMATION

Target	BDNF
Synonyms	Brain-Derived Neurotrophic Factor;BDNF;Abrineurin
Description	Recombinant Human Brain-Derived Neurotrophic Factor is produced by our E.coli expression system and the target gene encoding His129-Arg247 is expressed.
Delivery	In Stock
Uniprot ID	P23560
Expression Host	E.coli
Tag	
Molecular Characterization	Not available
Molecular Weight	13 KDa
Purity	Greater than 95% as determined by reducing SDS-PAGE.
Formulation & Reconstitution	Lyophilized from a 0.2 μm filtered solution of 20mM PB, 250mM NaCl, pH 7.2.
Storage&Shipping	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Background	Brain-Derived Neurotrophic Factor (BDNF) is a member of the neurotrophin family. Along with other structurally related neurotrophic factors NGF, NT-3 and NT-4, BDNF binds with high affinity to the TrkB kinase receptor. It also binds with the LNGFR (for low-affinity nerve growth factor receptor, also known as p75). BDNF promotes the survival, growth and differentiation of neurons. It serves as a major regulator of synaptic transmission and plasticity at adult synapses in many regions of the CNS. BDNF expression is altered in neurodegenerative disorders such as Parkinson's and Alzheimer's disease.
Usage	Research use only
Conjugate	Unconjugated

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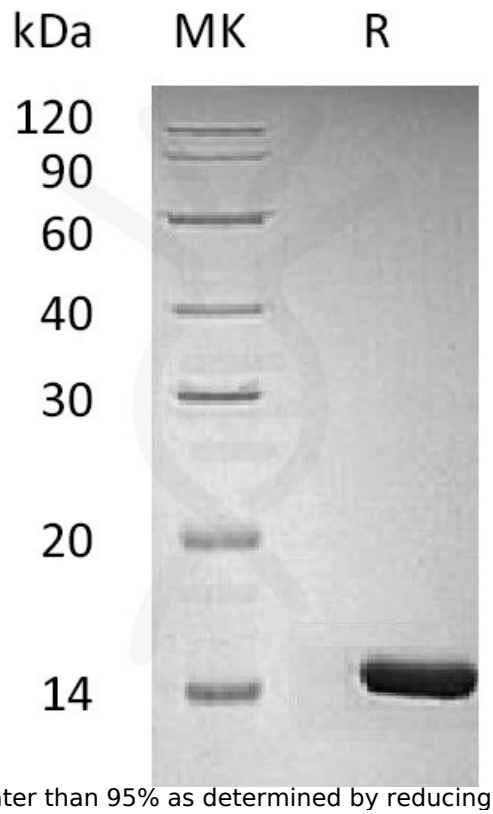


Figure 1. Greater than 95% as determined by reducing SDS-PAGE.

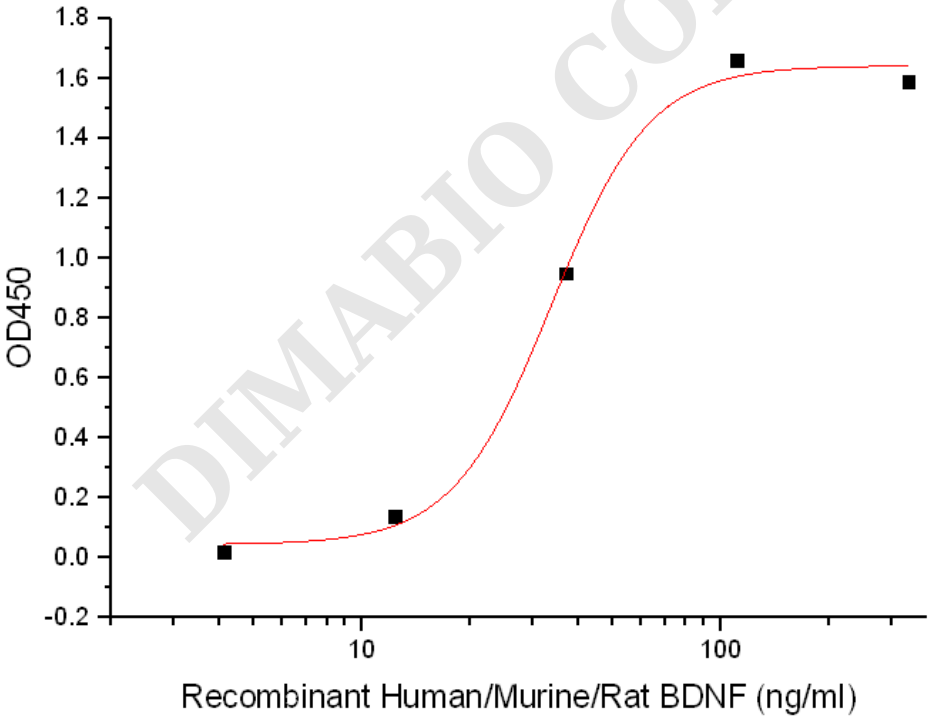


Figure 2. Immobilized Human TrkB-His at 2μg/mL (100 μl/well) can bind Human BDNF*: Biotinylated by NHS-biotin prior to testing. The ED50 of Human BDNF* is 47.58 ng/ml.

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