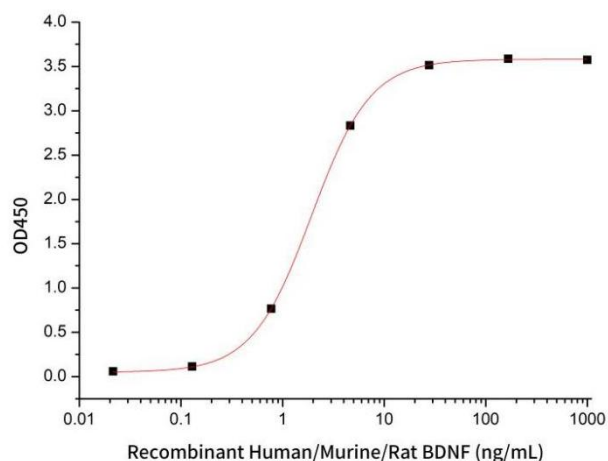


Recombinant Human BDNF

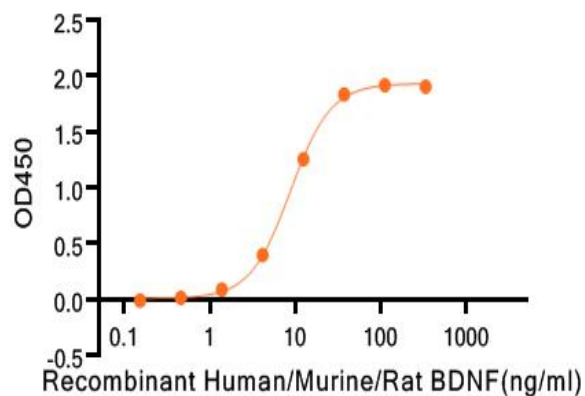
Catalog#:P00062 Derived from *E.coli*

DESCRIPTION	<p>Recombinant Human Brain-Derived Neurotrophic Factor is produced by our <i>E.coli</i> expression system and the target gene encoding His129-Arg247 is expressed.</p> <p>Accession#: P23560</p> <p>Known as: Brain-Derived Neurotrophic Factor; BDNF; Abrineurin</p>
FORMULATION	Lyophilized from a 0.2 μ m filtered solution of 20mM PB, 250mM NaCl, pH 7.2.
SHIPPING	<p>The product is shipped at ambient temperature.</p> <p>Upon receipt, store it immediately at the temperature listed below.</p>
STORAGE	<p>Lyophilized protein should be stored at $\leq -20^{\circ}\text{C}$, stable for one year after receipt.</p> <p>Reconstituted protein solution can be stored at $2-8^{\circ}\text{C}$ for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at $\leq -20^{\circ}\text{C}$ for 3 months.</p>
RECONSTITUTION	<p><i>Always centrifuge tubes before opening. Do not mix by vortex or pipetting.</i></p> <p><i>It is not recommended to reconstitute to a concentration less than 100μg/ml.</i></p> <p>Dissolve the lyophilized protein in distilled water.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
QUALITY CONTROL	<p>Mol Mass: 13 KDa AP Mol Mass: 14 KDa, reducing conditions.</p> <p>Purity: Greater than 95% as determined by reducing SDS-PAGE.</p> <p>Endotoxin: < 0.01 EU/μg as determined by LAL test.</p>
BACKGROUND	<p>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.</p>
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;">SDS-PAGE</div>  </div>	

Bioactivity-ELISA:



Immobilized Human TrkB (C-6His) at 5 µg/mL (100 µL/well) can bind Human/Murine/Rat BDNF: Biotinylated by NHS-biotin prior to testing. The EC₅₀ of Human/Murine/Rat BDNF is ≤ 20 ng/mL.



Immobilized Human TrkB-His at 2 µg/mL (100 µL/well) can bind Human BDNF*: Biotinylated by NHS-biotin prior to testing. The ED₅₀ of Human BDNF* is 8.64 ng/mL.