

## Product datasheet for **TP720590**

### **BDNF (NM\_170732) Human Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Purified recombinant protein of Human brain-derived neurotrophic factor (BDNF), transcript variant 2
<b>Species:</b>	Human
<b>Expression Host:</b>	E. coli
<b>Expression cDNA Clone or AA Sequence:</b>	Ala19-Arg247
<b>Tag:</b>	Tag Free
<b>Predicted MW:</b>	52 kDa
<b>Concentration:</b>	lot specific
<b>Purity:</b>	>95% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	Provided lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl
<b>Endotoxin:</b>	Endotoxin level is < 0.1 ng/µg of protein (< 1 EU/µg)
<b>Reconstitution Method:</b>	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. Dissolve the lyophilized protein in ddH <sub>2</sub> O. It is not recommended to reconstitute a concentration less than 100 µg/ml. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
<b>RefSeq:</b>	<a href="#">NP_733928</a>
<b>Locus ID:</b>	627
<b>UniProt ID:</b>	<a href="#">P23560</a> , <a href="#">A0A0E3SU01</a>
<b>RefSeq Size:</b>	4125
<b>Cytogenetics:</b>	11p14.1
<b>RefSeq ORF:</b>	741
<b>Synonyms:</b>	ANON2; BULN2



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<b>Summary:</b>	This gene encodes a member of the nerve growth factor family of proteins. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the mature protein. Binding of this protein to its cognate receptor promotes neuronal survival in the adult brain. Expression of this gene is reduced in Alzheimer's, Parkinson's, and Huntington's disease patients. This gene may play a role in the regulation of the stress response and in the biology of mood disorders. [provided by RefSeq, Nov 2015]
<b>Protein Families:</b>	Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Secreted Protein, Transmembrane
<b>Protein Pathways:</b>	Huntington's disease, MAPK signaling pathway, Neurotrophin signaling pathway