

# Recombinant Full Length Human BDNF Protein, GST-tagged

**Cat. No.** BDNF-1566HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human BDNF full-length ORF ( AAH29795, 1 a.a. - 247 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>ProteinLength</b>    | 247 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | The protein encoded by this gene is a member of the nerve growth factor family. It is induced by cortical neurons, and is necessary for survival of striatal neurons in the brain. Expression of this gene is reduced in both Alzheimers and Huntington disease patients. This gene may play a role in the regulation of stress response and in the biology of mood disorders. Multiple transcript variants encoding distinct isoforms have been described for this gene. [provided by RefSeq] |
| <b>Form</b>             | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Molecular Mass</b>   | 52.91 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>AA Sequence</b>      | MTILFLTMVI SYFGCMKAAP MKEANIRGQG GLAYPGVRTH GTLESVNGPK<br>AGSRGLTSLA DTFEHMIEEL LDEDQKVRPN EENNKDADLY TSRVMLSSQV<br>PLEPPLLFL EEYKNYLDAA NMSMRVRRHS DPARRGELSV CDSISEWVTA<br>ADKKTAVDMS GGTVTVLEKV PVSKGQLKQY FYKTKCNPMG YAKEGCRGID<br>KRHWNSQCRT TQSYVRALTM DSKKRIGWRF IRIDTSCVCT LTIKRGR                                                                                                                                                                                                     |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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|----------------|--------------------------------------------------------------------------|
| <b>Storage</b> | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing. |
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| <b>Storage Buffer</b> | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer. |
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## GENE INFORMATION

|                  |                                                         |
|------------------|---------------------------------------------------------|
| <b>Gene Name</b> | BDNF brain-derived neurotrophic factor [ Homo sapiens ] |
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|                        |      |
|------------------------|------|
| <b>Official Symbol</b> | BDNF |
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| <b>Synonyms</b> | BDNF; brain-derived neurotrophic factor; neurotrophin; abrineurin; MGC34632 |
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| <b>Gene ID</b> | 627 |
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| <b>mRNA Refseq</b> | NM_001143805 |
|--------------------|--------------|

|                       |              |
|-----------------------|--------------|
| <b>Protein Refseq</b> | NP_001137277 |
|-----------------------|--------------|

|            |        |
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| <b>MIM</b> | 113505 |
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|-------------------|--------|
| <b>UniProt ID</b> | P23560 |
|-------------------|--------|

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