

# Recombinant Human BDNF Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** BDNF-3171H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | BDNF MS Standard C13 and N15-labeled recombinant protein (NP_733930) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</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. |
| <b>Molecular Mass</b>   | 25.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>AA Sequence</b>      | <p>MQSREEEFHQVRRVMTILFLTMVISYFGCMKAAPMKEANIRGQGGLAYPGVIRTH</p> <p>GTLESVNGPKAGSRGLTSLADTFEHVIEELLDEDQKVRPNEENNKDADLYTSRVMLS</p> <p>SQVPLEPPLFLLEEYKNYLDAANMSMRVRRHSDPARRGELSVCDSSISEWVTAADK</p> <p>KTAVDMSGGTVTVLEKVPVSKGQLKQYFYETKCNPMGYTKEGCRGIDKRHWNSQC</p> <p>RTTQSYVRALTMDSKKRIGWRFIRIDTSCVCTLTIKRGRTTRTRPLEQKLISEEDLAAN</p> <p>DILDYKDDDDKV</p>                                                                                                                                                                                                              |

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|                       |                                                                                            |
|-----------------------|--------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 80% as determined by SDS-PAGE and Coomassie blue staining                                |
| <b>Stability</b>      | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| <b>Storage</b>        | Store at -80 centigrade. Avoid repeated freeze-thaw cycles.                                |
| <b>Concentration</b>  | 50 µg/mL as determined by BCA                                                              |
| <b>Storage Buffer</b> | 100 mM glycine, 25 mM Tris-HCl, pH 7.3.                                                    |

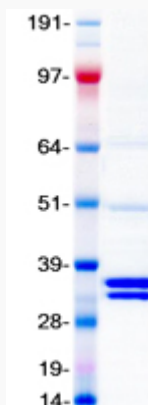
## GENE INFORMATION

|                        |                                                                              |
|------------------------|------------------------------------------------------------------------------|
| <b>Gene Name</b>       | BDNF brain-derived neurotrophic factor [ Homo sapiens (human) ]              |
| <b>Official Symbol</b> | BDNF                                                                         |
| <b>Synonyms</b>        | BDNF; brain-derived neurotrophic factor; neurotrophin; abrineurin; MGC34632; |
| <b>Gene ID</b>         | 627                                                                          |
| <b>mRNA Refseq</b>     | NM_170734                                                                    |
| <b>Protein Refseq</b>  | NP_733930                                                                    |
| <b>MIM</b>             | 113505                                                                       |
| <b>UniProt ID</b>      | P23560                                                                       |

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**SDS-PAGE**

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