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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Datasheet

BDNF (Human) Recombinant Protein (P02)

Catalog Number: H00000627-P02

Regulation Status: For research use only (RUO)

Product Description: Human BDNF full-length ORF (NP_733927.1, 1 a.a. - 255 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence:

MFHQVRRVMTILFLTMVISYFGCMKAAPMKEANIRGQ
GGLAYPGVRTHGTLESVNGPKAGSRGLTSLADTFEHV
IEELLDEDQKVRPNEENNKDADLYTSRVMLSSQVPLE
PPLLFLLEEKNYLDAANMSMRVRRHSDPARRGELS
VCDISEWVTAADKKTAVDMSGGTVTVLEKVPVSKGQL
KQYFYETKCNPMGYTKEGCRGIDKRHWNSQCRTTQS
YVRALTMDSKKRIGWRFIRIDTSCVCTLTIKRGR

Host: Wheat Germ (in vitro)

Theoretical MW (kDa): 55.3

Interspecies Antigen Sequence: Mouse (97); Rat (97)

Applications: AP, Array, ELISA, WB-Re
(See our web site product page for detailed applications information)

Protocols: See our web site at
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Preparation Method: [in vitro wheat germ expression system](#)

Purification: Glutathione Sepharose 4 Fast Flow

Storage Buffer: 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction: Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 627

Gene Symbol: BDNF

Gene Alias: MGC34632

Gene Summary: 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 Alzheimer's 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]

References:

1. Intrathecal Delivery of BDNF into the Lumbar Cistern Re-Engages Locomotor Stepping after Spinal Cord Injury. Francesca Marchionne, Alexander J Krupka, George M Smith, Michel A Lemay. IEEE Trans Neural Syst Rehabil Eng. 2020 Nov;28(11):2459-2467. doi: 10.1109/TNSRE.2020.3027393. Epub 2020 Nov 6.
2. Convection enhanced drug delivery of BDNF through a microcannula in a rodent model to strengthen connectivity of a peripheral motor nerve bridge model to bypass spinal cord injury. Martin Bauknight W, Chakrabarty S, Hwang BY, Malone HR, Joshi S, Bruce JN, Sander Connolly E, Winfree CJ, Cunningham MG, Martin JH, Haque R. J Clin Neurosci. 2012 Apr;19(4):563-9.