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## Product Datasheet

### Rat BDNF protein, His tag, Unconjugated GTX00367-PRO

|                            |   |
|----------------------------|---|
| Article Name               | Rat BDNF protein, His tag, Unconjugated   |
| Biozol Catalog Number      | GTX00367-PRO  |
| Supplier Catalog Number    | GTX00367-pro  |
| Alternative Catalog Number | GTX00367-PRO-10   |
| Manufacturer               | GeneTex   |
| Category                   | Proteine/Peptide  |
| Application                | FA  |
| Species Reactivity         | Rat   |
| Conjugation                | Unconjugated  |
| NCBI                       | <a href="#">24225</a>   |
| UniProt                    | <a href="#">P23363</a>  |
| Buffer                     | Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose, ProClin 300. |
| Expression System          | E. coli   |
| Form                       | Lyophilized powder  |
| Sequence                   | N-terminal His-Tag, Asn117~Gly248 (NP_001257559.1)  |

Application Notes

Brain-derived neurotrophic factor, also known as BDNF is a member of the neurotrophin family of growth factors, which are related to the canonical Nerve Growth Factor. BDNF acts on certain neurons of the central nervous system and the peripheral nervous system, helping to support the survival of existing neurons, and encourage the growth and differentiation of new neurons and synapses. Besides, Amyloid Precursor Protein (APP) has been identified as an interactor of BDNF, thus a binding ELISA assay was conducted to detect the interaction of recombinant rat BDNF and recombinant rat APP. Briefly, BDNF were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100  $\mu$ l were then transferred to APP-coated microtiter wells and incubated for 2h at 37C. Wells were washed with PBST and incubated for 1h with anti-BDNF pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37C. Finally, add 50  $\mu$ l stop solution to the wells and read at 450nm immediately. The binding activity of BDNF and APP was in a dose dependent manner.