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## DATASHEET

### Recombinant mouse BDNF protein

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#### Product overview

<b>Name</b>	Recombinant mouse BDNF protein
<b>Cat No</b>	HB9516
<b>Species of origin</b>	mouse
<b>Alternative names</b>	Recombinant Mouse Brain-Derived Neurotrophic Factor, GP145-TrkB/GP95-TrkB, Trk-B, Neurotrophic tyrosine kinase receptor type 2, TrkB, tyrosine kinase, Ntrk2, Trkb, BDNF/NT-3 growth factors receptor.
<b>Purity</b>	>95%
<b>Description</b>	Mouse BDNF protein

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#### Solubility & Handling

<b>Handling</b>	<ul style="list-style-type: none"><li>Following reconstitution, solutions may be stored at 4°C if being used within 2-4 weeks. For future use store at -20°C.</li><li>For long term storage, a carrier protein (0.1% HSA or BSA) should be added to stock solutions. Solutions should be aliquoted into tightly sealed vials for storage at -20°C. Freeze-thaw cycles should be prevented.</li></ul>
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

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#### Chemical Data

<b>Source</b>	Sf9, Insect cells.
<b>Appearance</b>	Colourless solution (sterile filtered)
<b>Formulation</b>	Solution (0.5mg/ml) containing PBS (pH 7.4) and 10% glycerol

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#### References

##### ProBDNF inhibits proliferation, migration and differentiation of mouse neural stem cells

Li JY *et al* (2017) Brain Res 1668

**PubMedID** [28528122](#)

##### Cultured hippocampal neurons show responses to BDNF, NT-3, and NT-4, but not NGF

Ip NY *et al* (1993) J Neurosci 13(8)

**PubMedID** [7688038](#)

##### The ability of BDNF to modify neurogenesis and depressive-like behaviors is dependent upon phosphorylation of tyrosine residues 365/367 in the GABA(A)-receptor $\gamma 2$ subunit

Vithlani M *et al* (2013) J Neurosci 33(39)

**PubMedID** [24068823](#)

##### Neurotrophins: roles in neuronal development and function

Huang EJ *et al* (2001) Annu Rev Neurosci 24

PubMedID 11520916

BDNF function in adult synaptic plasticity: the synaptic consolidation hypothesis

Bramham CR *et al* (2005) Prog Neurobiol 76(2)

PubMedID 16099088

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