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## DATASHEET

Recombinant human BDNF (His Tag) protein

### Product overview

<b>Name</b>	Recombinant human BDNF (His Tag) protein
<b>Cat No</b>	HB7742
<b>Species of origin</b>	human
<b>Alternative names</b>	Recombinant Human Brain-Derived Neurotrophic Factor, His Tag, Brain-Derived Neurotrophic Factor, Neurotrophin, Abreineurin, ANON2, BULN2, Brain-derived neurotrophic factor.
<b>Purity</b>	>85%
<b>Description</b>	His tag recombinant human BDNF protein

### 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.

### Chemical Data

<b>UniProt ID</b>	P23560
<b>Source</b>	E. Coli.
<b>Appearance</b>	Colourless solution (sterile filtered)
<b>Formulation</b>	Solution (1mg/ml) containing Tris-HCl buffer (20mM, pH 8.0) and 10% glycerol

### References

#### Brain-derived neurotrophic factor

Binder DK *et al* (2004) Growth Factors 22(3)

**PubMedID** [15518235](#)

#### 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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