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## DATASHEET

### Recombinant human BDNF (His Tag) protein

## Product overview

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

## Solubility & Handling

Handling	<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>
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

## Chemical Data

UniProt ID	P23560
Source	E. Coli.
Appearance	Colourless solution (sterile filtered)
Formulation	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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