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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> <li>Following reconstitution, solutions may be stored at 4°C if being used withing 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</li> </ul>
Important	should be prevented. 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

lp NY *et al* (1993) J Neurosci 13(8) **PubMedID** 7688038

The ability of BDNF to modify n	eurogenesis and depressive-like behaviors is dependent upon phosphorylation of tyrosine
residues 365/367 in the GABA(A	A)-receptor γ2 subunit
Vithlani M <i>et al</i> (2013) J Neurosci 3	33(39)
PubMedID	24068823

#### Neurotrophins: roles in neuronal development and function Huang EJ *et al* (2001) Annu Rev Neurosci 24

#### BDNF function in adult synaptic plasticity: the synaptic consolidation hypothesis

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

 PubMedID
 16099088