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## DATASHEET

### Recombinant human proBDNF protein

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#### Product overview

<b>Name</b>	Recombinant human proBDNF protein
<b>Cat No</b>	HB9577
<b>Biological description</b>	The pre-BDNF precursor, pro-BDNF is an important regulator of neurodegeneration, hippocampal long-term depression, and synaptic plasticity.
<b>Species of origin</b>	human
<b>Alternative names</b>	Recombinant Human Precursor Brain-Derived Neurotrophic Factor, proBDNF, Precursor Form Brain-derived Neurotrophic Factor.
<b>Purity</b>	>95%
<b>Description</b>	BDNF precursor

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#### Solubility & Handling

<b>Storage instructions</b>	-20 °C
<b>Solubility overview</b>	To make a stock solution, reconstitute in sterile 18MΩcm water at a concentration > 100µg/ml, which can then be diluted to make a working solution
<b>Handling</b>	<ul style="list-style-type: none"><li>• Solutions should be made in sterile deionized water (not less than 100 µg/ml). This solution can then be further diluted with other aqueous solutions.</li><li>• Following reconstitution, solutions may be stored at 4 °C and are useable for around 2-7 days and for future use store at -18 °C.</li><li>• 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>UniProt ID</b>	P23560
<b>Source</b>	E. Coli.
<b>Appearance</b>	White lyophilized powder (sterile filtered & freeze-dried)
<b>Formulation</b>	Lyophilized from a solution (0.5mg/ml) in phosphate buffer (20mM, pH 8.0) and NaCl (0.5M)

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#### References

##### **Pro-Brain-Derived Neurotrophic Factor (proBDNF)-Mediated p75NTR Activation Promotes Depolarizing Actions of GABA and Increases Susceptibility to Epileptic Seizures**

Riffault B *et al* (2018) Cereb Cortex 28(2)

**PubMedID** [27913431](#)

##### **Precursor of brain-derived neurotrophic factor (proBDNF) forms a complex with Huntingtin-associated protein-1 (HAP1) and sortilin that modulates proBDNF trafficking, degradation, and processing**

Yang M *et al* (2011) J Biol Chem 286(18)

**PubMedID** [21357693](#)

**proBDNF is modified by advanced glycation end products in Alzheimer's disease and causes neuronal apoptosis by**

**inducing p75 neurotrophin receptor processing**

Fleitas C *et al* (2018) Mol Brain 11(1)

**PubMedID**

30428894

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