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## DATASHEET

### Recombinant human CDNF protein

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#### Product overview

<b>Name</b>	Recombinant human CDNF protein
<b>Cat No</b>	HB8544
<b>Biological description</b>	Neurotrophin factor that is expressed in brain, neuronal and some non-neuronal tissues.  CDNF is mainly localized to the endoplasmic reticulum lumen and modulates the unfolded protein response (UPR) pathway.  It has been shown to promote survival, growth and function of dopamine-specific neurons.  It additionally shows neurorestorative effects in a number of Parkinson's disease animal models.
<b>Species of origin</b>	human
<b>Alternative names</b>	Recombinant Human Cerebral Dopamine Neurotrophic Factor, Cerebral neurotrophic factor, arginine-rich, mutated in early stage tumors-like 1, Conserved neurotrophic factor, ARMET-like protein 1, ARMETL1.
<b>Biological action</b>	Activator
<b>Purity</b>	>96%
<b>Description</b>	Neurotrophin implicated in Parkinson's disease research

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#### Biological Data

<b>Application notes</b>	ED <sub>50</sub> = 15-25µg/ml (determined by its ability to stimulate of proliferation of rat C6 cells) corresponding to a specific activity of 40-67units/mg.
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#### Solubility & Handling

<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>• 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>UniProt ID</b>	Q49AH0
<b>Source</b>	E. Coli.
<b>Appearance</b>	White lyophilized powder (sterile filtered & freeze-dried)
<b>Formulation</b>	Lyophilized from a 0.2µm filtered solution in PBS (pH 7.4)

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## References

### CDNF Protein Therapy in Parkinson's Disease

Huttunen HJ *et al* (2019) Cell Transplant 28(4)

**PubMedID** [30947516](#)

### Characterization of recombinant human brain-derived neurotrophic factor variants

Sunasara KM *et al* (1999) Arch Biochem Biophys 372(2)

**PubMedID** [10600162](#)

### Transport of human recombinant brain-derived neurotrophic factor (BDNF) through the rat blood-brain barrier in vivo using vector-mediated peptide drug delivery

Pardridge WM *et al* (1994) Pharm Res 11(5)

**PubMedID** [8058646](#)

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