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# DATASHEET

Recombinant mouse CDNF protein

#### **Product overview**

| Name              | Recombinant mouse CDNF protein   |
|-------------------|--|
| Cat No            | HB7955   |
| Species of origin | mouse  |
| Alternative names | Recombinant Mouse Cerebral Dopamine Neurotrophic Factor, Cerebral dopamine neurotrophic factor, ARMET-like protein 1, Conserved dopamine neurotrophic factor, Cdnf, Armetl1, 9330140G23. |
| Purity            | >97%   |
| Description       | Mouse CDNF protein   |
|                   |  |

## **Biological Data**

| Application notes | Enhances neurite outgrowth of E16-E18 rat embryonic cortical neurons when immobilized at 5-30 |
|-------------------|---|
|                   | μg/mL on a nitrocellulose-coated microplate.  |

## **Solubility & Handling**

| Solubility overview | To make a stock solution, reconstitute in sterile $18M\Omega$ cm water at a concentration > $100\mu$ g/ml, which can then be diluted to make a working solution   |
|---------------------|---|
| Handling            | <ul> <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> |
| 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  | Q8CC36  |
|-------------|---|
| Source      | E. Coli.  |
| Appearance  | White lyophilized powder (sterile filtered & freeze-dried)      |
| Formulation | Lyophilized from a $0.2\mu m$ filtered solution in PBS (pH 7.4) |

#### 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)

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)

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