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# **DATASHEET**

Recombinant rat GDNF protein

### **Product overview**

Name Recombinant rat GDNF protein

Cat No HB1368 Species of origin rat

Alternative names Recombinant Rat Glial-Derived Neurotrophic Factor, ATF1, ATF2, HFB1-GDNF, GDNF.

Purity >98%

**Description** Rat GDNF recombinant protein

### **Biological Data**

**Application notes** Fully biologically active when compared to standard.  $ED_{50} = <0.2$ ng/ml (determined by a cell

proliferation assay using rat C6 cells), corresponding to a specific activity of more than

5,000,000IU/mg.

## **Solubility & Handling**

Solubility overview

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

• Solutions should be made in sterile dei

• 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.

- 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.
- 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.

Shipping Conditions Important Stable for ambient temperature shipping. Follow storage instructions on receipt.

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 Q07731 Source E. Coli.

**Appearance** White lyophilized powder (sterile filtered & freeze-dried) **Formulation** Lyophilized from a sterile solution containing PBS (pH 7.4)

### References

Glial cell line-derived neurotrophic factor (GDNF): a drug candidate for the treatment of Parkinson's disease

Grondin R *et al* (1998) J Neurol 245(11 Suppl 3) **PubMedID**9808338

Biology of GDNF and its receptors - Relevance for disorders of the central nervous system

Ibanez CF et al (2017) Neurobiol Dis 97(Pt B)

**PubMedID** 26829643

Glial cell line-derived neurotrophic factor (GDNF) induces neuritogenesis in the cochlear spiral ganglion via neural cell adhesion molecule (NCAM)

Euteneuer S *et al* (2013) Mol Cell Neurosci 54 **PubMedID** 23262364