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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  $18M\Omega cm$  water at a concentration  $> 100 \mu g/ml$ , which

can then be diluted to make a working solution

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.

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 Q07731 Source E. Coli.

AppearanceWhite lyophilized powder (sterile filtered & freeze-dried)FormulationLyophilized 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