

Hello Bio, Inc.  
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500  
F. 609-228-4994

customercare-usa@hellobio.com



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## DATASHEET

### Recombinant rat GDNF protein

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#### Product overview

<b>Name</b>	Recombinant rat GDNF protein
<b>Cat No</b>	HB1368
<b>Species of origin</b>	rat
<b>Alternative names</b>	Recombinant Rat Glial-Derived Neurotrophic Factor, ATF1, ATF2, HFB1-GDNF, GDNF.
<b>Purity</b>	>98%
<b>Description</b>	Rat GDNF recombinant protein

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#### Biological Data

<b>Application notes</b>	Fully biologically active when compared to standard. $ED_{50} = <0.2\text{ng/ml}$ (determined by a cell proliferation assay using rat C6 cells), corresponding to a specific activity of more than 5,000,000IU/mg.
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#### Solubility & Handling

<b>Solubility overview</b>	To make a stock solution, reconstitute in sterile 18MΩcm water at a concentration $> 100\mu\text{g/ml}$ , 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 <math>100\mu\text{g/ml}</math>). This solution can then be further diluted with other aqueous solutions.</li><li>Following reconstitution, solutions may be stored at <math>4^{\circ}\text{C}</math> and are useable for around 2-7 days and for future use store at <math>-18^{\circ}\text{C}</math>.</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 <math>-20^{\circ}\text{C}</math>. 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>	Q07731
<b>Source</b>	E. Coli.
<b>Appearance</b>	White lyophilized powder (sterile filtered & freeze-dried)
<b>Formulation</b>	Lyophilized from a sterile solution containing PBS (pH 7.4)

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#### 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

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