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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} = <0.2ng/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
Handling	• 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.
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