Active Recombinant Human GDNF protein(Arg83-Ile185)

Cat. No. GDNF-7292H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GDNF (P39905-2) (Arg 83-Ile 185) was expressed and purified in HEK293, with additional two aa (Gly& Pro) at the N-terminus.
Species	Human
Source	HEK293
ProteinLength	Arg83-Ile185
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	1. Measured in a cell prolifeRation assay using SH-SY5Y human neuroblastoma cells. The ED50 for this effect is typically 3-20 ng/mL in the presence of Recombinant Human GFR alpha-1/GDNF R alpha-1 His Chimera. 2. Immobilized Recombinant Human GDNF Protein at 2 μg/mL (100 μL/well) can bind Recombinant Human GFRA1 / GFRα1 / GDNFRA Protein (His Tag), the EC50 is 15-48 ng/mL.
Molecular Mass	The recombinant human GDNF consists of 105 amino acids and predicts a molecular mass of 15.1 KDa. It migRates as approximately 18 KDa band in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method

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Purity	> 97 % as determined by SDS-PAGE
Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	GDNF glial cell derived neurotrophic factor [Homo sapiens]
Official Symbol	GDNF
Synonyms	GDNF; glial cell derived neurotrophic factor; glial cell line-derived neurotrophic factor; astrocyte derived trophic factor; ATF1; ATF2; glial cell line derived neurotrophic factor; glial derived neurotrophic factor; HFB1 GDNF; ATF; astrocyte-derived trophic factor; HSCR3; HFB1-GDNF;
Gene ID	2668
mRNA Refseq	NM_000514
Protein Refseq	NP_000505
MIM	600837
UniProt ID	P39905

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