Active Recombinant Rat Gdnf protein, His-tagged

Cat. No. Gdnf-7431R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Gdnf protein(Q07731-1)(Ser78-Ile211), fused with His tag, was expressed in Insect Cells.
Species	Rat
Source	Insect Cells
ProteinLength	Ser78-Ile211
Form	Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 7.4Please contact us for any concerns or special requirements. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Bio-activity	1. Measured in a cell proliferation assay using SH-SY5Y human neuroblastoma cells. The ED50 for this effect is typically 10-50 ng/mL in the presence of Recombinant Rat GFR alpha-1/GDNF R alpha-1 His Chimera.2. Immobilized rat His-GDNF (78-211) at 10 μg/ml (100 μl/well) can bind rat GFRA1-Fc, The EC50 of rat GFRA1-Fc is 20-46.6 ng/ml.
Molecular Mass	The recombinant rat GDNF consists of 150 amino acids and predicts a molecular mass of 17.1 KDa. It migrates as an approximately 20 KDa band in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU per

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	μg of the protein as determined by the LAL method
Purity	> 95 % 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 [Rattus norvegicus]
Official Symbol	Gdnf
Synonyms	GDNF; glial cell derived neurotrophic factor; glial cell line-derived neurotrophic factor; ATF; astrocyte-derived trophic factor; Glial cell line derived neutrophic factor; glial cell line derived neurotrophic factor;
Gene ID	25453
mRNA Refseq	NM_019139
Protein Refseq	NP_062012

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