

## Active Recombinant Rat Gdnf protein, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Rat Gdnf protein(Q07731-1)(Ser78-Ile211), fused with His tag, was expressed in Insect Cells.
<b>Species</b>	Rat
<b>Source</b>	Insect Cells
<b>ProteinLength</b>	Ser78-Ile211
<b>Form</b>	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.
<b>Bio-activity</b>	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.
<b>Molecular Mass</b>	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.
<b>Endotoxin</b>	< 1.0 EU per

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	µg of the protein as determined by the LAL method
<b>Purity</b>	> 95 % as determined by SDS-PAGE
<b>Storage</b>	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.
<b>Reconstitution</b>	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

<b>Gene Name</b>	Gdnf glial cell derived neurotrophic factor [ <i>Rattus norvegicus</i> ]
<b>Official Symbol</b>	Gdnf
<b>Synonyms</b>	GDNF; glial cell derived neurotrophic factor; glial cell line-derived neurotrophic factor; ATF; astrocyte-derived trophic factor; Glial cell line derived neurotrophic factor; glial cell line derived neurotrophic factor;
<b>Gene ID</b>	25453
<b>mRNA Refseq</b>	NM_019139
<b>Protein Refseq</b>	NP_062012

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