

# Rat GDNF (His Tag) recombinant protein



Catalog Number: 501013

## General Information

### Gene Name Synonym

Astrocyte-derived trophic factor

### Protein Construction

A DNA sequence encoding the mature form of rat GDNF (Q07731-1) (Ser78-Ile211) was expressed, with a polyhistidine tag at the N-terminus.

### Organism

Rat

### Expression Host

Baculovirus-Insect Cells

## QC Testing

### Activity

1. Measured in a cell proliferation assay using SH-SY5Y human neuroblastoma cells. The  $ED_{50}$  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  $\mu\text{g/ml}$  (100  $\mu\text{l/well}$ ) can bind rat GFRA1-Fc (cat:503822), The  $EC_{50}$  of rat GFRA1-Fc (cat:503822) is 20-46.6 ng/ml.

### Purity

> 95 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per  $\mu\text{g}$  of the protein as determined by the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at  $-70^{\circ}\text{C}$

## Predicted N terminal

His

## 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.

## Formulation

- Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 7.4
1. 5 % trehalose and mannitol are added as protectants before lyophilization.
  2. Please contact us for any concerns or special requirements.

## Usage Guide

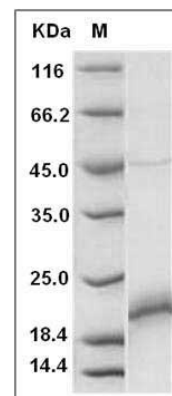
### Storage

Store it under sterile conditions at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$ . It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

## SDS-PAGE



Rat GDNF Protein (His Tag) SDS-PAGE