# **Human GDNF recombinant protein**

Catalog Number: 500168



## **General Information**

## **Gene Name Synonym**

Astrocyte-derived trophic factor

### **Protein Construction**

A DNA sequence encoding the mature form of human GDNF (P39905-2) (Arg 83-Ile 185) was expressed and purified, with additional two aa (Gly& Pro) at the N-terminus.

# Organism

Human

## **Expression Host**

**Human Cells** 

# QC Testing

### Activity

- 1. Measured in a cell proliferation assay using SH-SY5Y human neuroblastoma cells. The  $\rm ED_{50}$  for this effect is typically 3-15 ng/mL in the presence of Recombinant Human GFR alpha-1/GDNF R alpha-1 His Chimera.
- 2. Measured by its ability to bind biotinylated Human GFRa1-His in functional ELISA.

## **Purity**

> 97 % as determined by SDS-PAGE

#### **Endotoxin**

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

## **Stability**

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

### **Predicted N terminal**

Gly

#### **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.

### **Formulation**

Lyophilized from sterile PBS, 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**

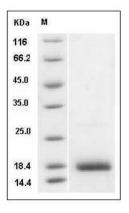
## Storage

Store it under sterile conditions at -20°C to -80°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**



Human GDNF Protein SDS-PAGE