

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 μ g/ml (100 μ 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 μ 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°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

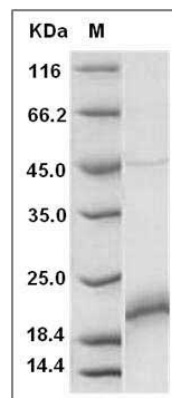
Storage

Store it under sterile conditions at -20°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



Rat GDNF Protein (His Tag) SDS-PAGE