



Recombinant Protein Technical Manual

Recombinant Human GDNF Protein (Active)

RPES4945

Product Data:

Product SKU: RPES4945

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: P39905

Protein Information:

Molecular Mass: 15.1 kDa

AP Molecular Mass: 17 kDa

Tag:

Bio-activity: Immobilized Human GDNF at 2µg/ml(100 µl/well) can bind Human GFRA1-His(Cat: PKSH033670).

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.25.

Reconstitution: Please refer to the printed manual for detailed information.

Application: Functional ELISA

Synonyms: Glial Cell Line-Derived Neurotrophic Factor; hGDNF; Astrocyte-Derived Trophic Factor; ATF; GDNF

Immunogen Information:

Sequence: Ser78-Ile211

Background:

Glial Cell Line-Derived Neurotrophic Factor (GDNF) is a disulfide-linked homodimeric glycoprotein that belongs to the TGF- β superfamily. It has been shown to promote the survival of various neuronal subpopulations in both the central as well as the peripheral nervous systems at different stages of their development. Human GDNF cDNA encodes a 211 amino acid residue prepropeptide that is processed to yield a dimeric protein. Mature human GDNF was predicted to contain two 134 amino acid residue subunits. Cells known to express GDNF include Sertoli cells, type 1 astrocytes, Schwann cells, neurons, pinealocytes and skeletal muscle cells. Mutations in this gene may be associated with Hirschsprung disease.