

RPES8317

Product Information

Product SKU: RPES8317	Expression Host: Mammalian	Size: 20µg
Tag: C-Fc	Reactivity: Human	Accession: P39905

Additional Information

Calculated MW: 36.2 kDa	Observed MW: 40 kDa
Sequence: Arg109-Ile211	

Protein Information

Background: Glial cell line-derived neurotrophic factor(GDNF) is an important member of the GDNF family of ligands(GFL). The GDNF family of ligands is comprised by four neurotrophic factors: glial cell line-derived neurotrophic factor (GDNF), neurturin (NRTN), artemin (ARTN), and persephin (PSPN). It has been found that GFLs play a role in a number of biological processes including cell survival, neurite outgrowth, cell differentiation and cell migration. As the founding member, GDNF plays a key role in the promotion of the survival of dopaminergic neurons. GDNF is a highly conserved neurotrophic factor. The recombinant form of this protein also promotes the survival and differentiation of dopaminergic neurons in culture, and was able to prevent apoptosis of motor neurons induced by axotomy. GDNF also regulates kidney development and spermatogenesis, and it affects alcohol consumption. It has been shown that GDNF results in two Parkinson's disease clinical trial and in a number of animal trials. It has been taken as a potent survival factor for central motoneurons.

Synonyms: Astrocyte derived trophic factor, Astrocyte derived trophic factor 1, Astrocyte-derived trophic factor, ATF 1, ATF 2, Atf, ATF1, ATF2, gdnf, GDNF, Glial cell derived neurotrophic factor, Glial Cell Line Derived Neurotrophic Factor, Glial cell line-derived neurotrophic factor, Glial derived neurotrophic factor, HFB1 GDNF, hGDNF, HSCR3

Endotoxin: < 1.0 EU/mg of the protein as determined by the LAL method

Formulation: Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.

Contact Details | Dublin, Ireland

Email: techsupport@assaygenie.com | **Web:** www.assaygenie.com

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Purity: > 90% as determined by reducing SDS-PAGE.

Bio-Activity: Not validated for activity

Storage: Generally, 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.