Recombinant Human GDNF

Cat No:HR2R1454

For research use only

Overview

Quantity	10 x 100 ?g (Z101058 x 10)
Gene Symbol	GDNF
Gene ID	N/A
Accession	P39905
Alternative Name	GDNF, Glial cell line-derived neurotrophic factor, hGDNF, Astrocyte-derived trophic factor, ATF Recombinant Human Glial-Derived Neurotrophic Factor (GDNF)
Species	Human
Source	E. coli
Description	GDNF is a disulfide-bonded homodimeric glycosylated protein of 134 amino acids. The amino acid sequences inferred from rat and human cDNAs are 93% identical. The proteins contain seven conserved cysteine residues in the same relative spacing found in all members of the TGF-beta superfamily of proteins. In embryonic midbrain cultures GDNF promotes the survival and morphological differentiation of dopaminergic neurons and increases their high-affinity dopamine uptake.
Functions	The ED(50) was determined by the proliferation of rat C6 cells is < 0.1 ng/mL, corresponding to a specific activity of > 1.0 x 10^7 units/mg.
Formulation	Recombinant Glial-Derived Neurotrophic Factor was lyophilized from a 0.2 ?m filtered solution in 2.5% glycine, 0.5% sucrose, 0.01% Tween80, 5 mM Glutamic acid, pH 4.5.
Solubility	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Appearance	Lyophilized Powder
Molecular Weight	15
Purity	>95% as determined by SDS-PAGE
Concentration	<1.0 EU/?g of recombinant protein as determined by the LAL method.
Shipping Condition	Ambient Temperature
Storage Condition	The lyophilized protein is stable for at least one year from date of receipt at -70?C. Upon reconstitution, this cytokine can be stored in working aliquots at 2? - 8?C for one month, or at -20?C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.