Recombinant Human GDNF

Cat No:HR2R1455

For research use only

Overview

Quantity	5 x 10 ?g (Z101055 x 5)
Gene Symbol	GDNF
Gene ID	N/A
Accession	P39905
Alternative Name	GDNF, Glial cell line-derived neurotrophic factor, Astrocyte-derived trophic factor, ATF Recombinant Human Glial-Derived Neurotrophic Factor (GDNF)
Species	Human
Source	E. coli
Description	GDNF is a disulfide-linked, homodimeric neurotrophic factor that belongs to the cystine-knot family of growth factors. Natively glycosylated, GDNF signals through a multi-component receptor system that comprises of a RET and one of the four GFR? receptors. In embryonic midbrain cultures, GDNF promotes the survival and morphological differentiation of dopaminergic neurons and increases their high-affinity dopamine uptake. Mature rat and human GDNF exhibit approximately 93% amino acid sequence identity and show considerable species cross-reactivity Recombinant Human GDNF is a non-glycosylated, disulfide-linked homodimer (30 kDa) consisting of 135 amino acids in each subunit.
Functions	The ED50 as determined by the proliferation of rat C6 cells was found to be <0.1 ng/mL
Formulation	Lyophilized from a 0.2 ?m filtered solution in Sodium Citrate and NaCl (pH 4.0)
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.