Recombinant Rat GDNF Datasheet

Catalog Number: PR15008  
Product Type: Recombinant protein

Source: A DNA sequence encoding the rat GDNF protein sequence (Lin, L-F. et al 1993, Science 260:1130 - 1132) was inserted in a baculovirus expression vector and expressed in Sf 21 insect cells.

Molecular Mass: Mature rat GDNF is a disulfide-linked dimeric protein containing two 134 amino acid residue peptides with a predicted molecular mass of approximately 15 kDa for the monomer.

Purity: > 97%, as determined by SDS-PAGE and visualized by silver stain.

Endotoxin Levels: < 1.0 EU per 1 μg of the enzyme as determined by the LAL method.

Activity: • Measured by its ability to support the survival and stimulate neurite outgrowth of cultured embryonic chick dorsal root ganglia neurons.
• The ED50 for this effect is typically 1 - 3 ng/mL.
• Measured by its ability to bind rrGFRα1/Fc. Immobilized rrGFRα1/Fc at 2 μg/mL (100 μL/well) can bind rrGDNF with a linear range of 0.1 - 10 ng/mL.

Format: Lyophilized from a 0.2 μm filtered solution in 35% CH3CN and 0.1% TFA, containing 50 μg of bovine serum albumin per 1 μg of cytokine.

Reconstitution: It is recommended that sterile PBS containing at least 0.1% human serum albumin or bovine serum albumin be added to the vial to prepare a stock solution of no less than 10 μg/mL.

Storage: Lyophilized samples are stable for up to six months at -20° C to -70° C. Upon reconstitution, this cytokine, in the presence of a carrier protein, can be stored under sterile conditions at 2 - 8° C for one month or at -20° C to -70° C in a manual defrost freezer for three months without detectable loss of activity. Avoid repeated freeze-thaw cycles.

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