

## 32-12091: Human Glial Derived Neurotrophic Factor (AF)

**Gene :** GDNF  
**Gene ID :** 2668  
**Uniprot ID :** P39905  
**Alternative Name :** Astrocyte-derived trophic factor

### Description

**Source:** Genetically modified E.coli.

**Predicted MW:** Dimer, 15.2/30.4 kDa (135/270 aa)

Glial cell-derived neurotrophic factor (GDNF) is a neurotrophic factor that signals through a multicomponent receptor system to activate receptor tyrosine kinase RET signaling. GDNF promotes dopamine uptake, prevents motor neuron apoptosis, and supports the survival and differentiation of neurons.

### Product Info

**Amount :** 10 µg / 100 µg  
**Purification :** Reducing and Non-Reducing SDS PAGE at  $\geq 95\%$   
**Content :** Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium citrate, 100 mM sodium chloride, pH 4.0  
Sterile water at 0.1 mg/mL  
**Storage condition :** Store at  $-20^{\circ}\text{C}$   
**Amino Acid :** MSPDKQMAVL PRRERNRQAA AANPENSRGK GRRGQRGKNR GCVLTAIHLN VTDLGLGYET KEELIFRYCS  
GSCDAAETTY DKILKNLSRN RRLVSDKVGQ ACCRPIAFDD DLSFLDDNLV YHILRKHS AK RCGCI

### Application Note

**Endotoxin:** Less than  $0.1 \text{ ng}/\mu\text{g}$  (1 IEU/ $\mu\text{g}$ ) as determined by LAL test.

Biological Activity was determined by C6 Proliferation at  $\leq 3 \text{ ug/mL}$ ;  $\geq 3.3 \times 10^2 \text{ units/mg}$ . Centrifuge vial before opening, Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at  $-80^{\circ}\text{C}$  and avoid repeat freeze thaws. Upon reconstitution, a small amount of visible precipitate can be expected. A 10% overfill has been added to the total material vial to compensate for this loss.



