

Recombinant Mouse GDNF Protein

Product Information

Product Name	Cat#	Size
Recombinant Mouse GDNF Protein	92103ES05	2 μg
	92103ES10	10 μg
	92103ES50	50 μg
	92103ES60	100 μg

Product Description

Glial cell line-derived neurotrophic factor (GDNF) is a glycosylated, disulfide-bonded homodimer that is a distantly related member of the transforming growth factor- β superfamily. It is a founding member of the GDNF family of ligands (GFL) and has been shown to interact with GFRA2 and GDNF family receptor alpha. Mature rat and human GDNF exhibit approximately 93% amino acid sequence identity and show considerable species cross-reactivity. Cells known to express GDNF include Sertoli cells, type 1 astrocytes, Schwann cells, neurons, pinealocytes and skeletal muscle cells. In embryonic midbrain cultures, recombinant human GDNF promoted the survival and morphological differentiation of dopaminergic neurons and increased their high-affinity dopamine uptake.

Product Properties

Synonyms	Astrocyte-derived trophic factor, ATF, ATF-1, ATF2, GDNF, HFB1-GDNF, HGDNF, HSCR3	
Accession	P48540	
GeneID	14573	
Source	E.coli-derived mouse GDNF, Ser78-Ile211.	
Molecular Weight	Approximately 29.9 kDa.	
AA Sequence	SPDKQAAALP RRERNRQAAA ASPENSRGKG RRGQRGKNRG CVLTAIHLNV TDLGLGYETK	
	EELIFRYCSG SCESAETMYD KILKNLSRSR RLTSDKVGQA CCRPVAFDDD LSFLDDNLVY	
	HILRKHSAKR CGCI	
Tag	None	
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.	
Purity	>95% by SDS-PAGE and HPLC analyses.	
Biological Activity	The ED50 as determined by a cell proliferation assay using rat C6 cells is less than 0.2 ng/mL,	
	corresponding to a specific activity of $> 5.0 \times 10^6$ IU/mg. Fully biologically active when compared to	
	standard.	
Endotoxin	< 0.1 EU per 1µg of the protein by the LAL method.	
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4, with 0.05% Tween-20.	
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom.	
	Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0	
	mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20°C. Further	
	dilutions should be made in appropriate buffered solutions.	

Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

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Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

- 1. Avoid repeated freeze-thaw cycles.
- 2. For your safety and health, please wear lab coats and disposable gloves for operation.
- 3. For research use only!

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