

## Catalog Number: HZ-1311

## **Data Sheet**



Animal Component-Free

Human cell expressed

Tag-Free

**Endotoxin Free** 

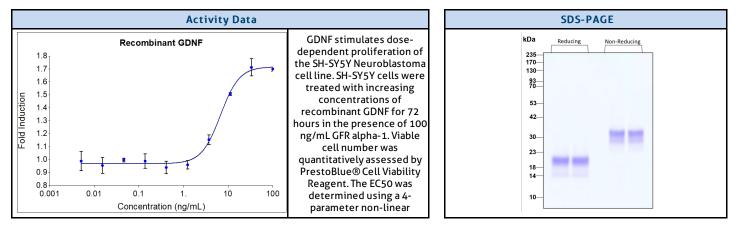
 Product Description

 GDNF is essential for the development of the enteric nervous system. GDNF is a protein that promotes the survival and differentiation of dopaminergic neurons in culture. It has the capabilities of preventing apoptosis of motor neurons induced by axotomy. This product signals through a receptor system which activates receptor tyrosine kinase RET signaling. The death of the motor neurons may lead to diseases like Parkinson's and ALS. GDNF is sought to have regenerative properties specifically for brain cells.

 Alternative Names
 ATF, ATF1, ATF2, GDNF, HFB1 GDNF, hGDNF

 Source
 Human Embryonic Kidney cells (HEK293). HEK293-derived GDNF protein

Specifications				
Test	Method	Specification		
Activity	Dose-dependent stimulation of the proliferation of SH-SY5Y cells	< 10 ng/mL EC50		
Molecular Mass	SDS-PAGE	22 to 25 kDa reduced, 30 to 38 kDa non-reduced, homodimer,glycosylated		
Purity	SDS-PAGE	>95%		
Endotoxin	LAL	<1 EU/g		



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Preparation			
Shipping Temperature	ambient temperature		
Formulation	n 1x PBS, See Certificate of Analysis for details		
Reconstitution Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile 1x PBS pH 7.4 containendotoxin-free recombinant human serum albumin (HSA).			

	Product Form	Temperature Conditions	Storage Time (From Date of Receipt)
	Lyophilized	-20°C to -80°C	Until Expiry Date
Stability and Storage	Lyophilized	Room Temperature	2 weeks
	Reconstituted as per CofA	-20°C to -80°C	6 months
	Reconstituted as per CofA	4°C	1 week
	Avoid repeated freeze-thaw cycles.		

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