

Catalog Number: HZ-1311

## **Data Sheet**





Animal Component-Free

Human cell expressed

Tag-Free

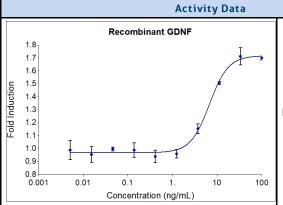
**Endotoxin Free** 

## **Product Description**

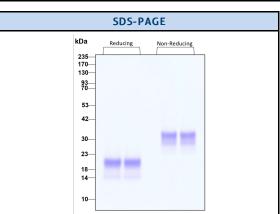
GDNF is a sesential for the development of the enteric nervous system. GDNF is a protein that promotes the survival and differentiation of dopaminergic neurons in culture. It has the capabilities of preventing apoptosis of motor neurons induced by axotomy. This product signals through a receptor system 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.

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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			
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			



GDNF stimulates dosedependent proliferation of the SH-SY5Y Neuroblastoma cell line. SH-SY5Y cells were treated with increasing concentrations of recombinant GDNF for 72 hours in the presence of 100 ng/mL GFR alpha-1. Viable cell number was quantitatively assessed by PrestoBlue® Cell Viability Reagent. The EC50 was determined using a 4parameter non-linear



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Document #: FR-QA118-101 Rev 0
Data Sheet Version #: 1

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Preparation				
Shipping Temperature ambient temperature				
Formulation 1x PBS, See Certificate of Analysis for details				
Reconstitution	Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein to 0.2 mg/mL in sterile 1x PBS pH 7.4 containing 0.1% endotoxin-free recombinant human serum albumin (HSA). Gently swirl or tap vial to mix.			

Stability and Storage	Product Form	Temperature Conditions	Storage Time (From Date of Receipt)
	Lyophilized	-20°C to -80°C	Until Expiry Date
	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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