

Animal Component-Free

## Catalog Number: HZ-1311

## Data Sheet

## HumanKine® GDNF (Recombinant Human)

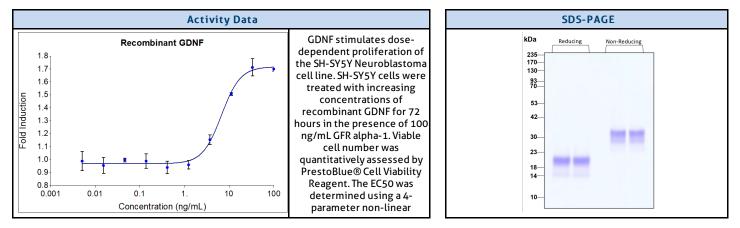
Human cell expressed

Tag-Free

**Endotoxin Free** 

Product DescriptionGDNF is essential for the development of the enteric nervous system. GDNF is a protein that promotes the survival and differentiation of dopaminergic<br/>neurons in culture. It has the capabilities of preventing apoptosis of motor neurons induced by axotomy. This product signals through a receptor system<br/>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<br/>have regenerative properties specifically for brain cells.Alternative NamesATF, ATF1, ATF2, GDNF, HFB1 GDNF, hGDNFSourceHuman Embryonic Kidney cells (HEK293). HEK293-derived GDNF proteinSpecies Reactivityhuman

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		



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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 containing 0.1% endotoxin-free recombinant human serum albumin (HSA). Gently swirl or tap vial to mix.			

	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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