

HumanKine[®] GDNF (Recombinant Human)



Animal Component-Free	Human cell expressed	Tag-Free	Endotoxin Free
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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.

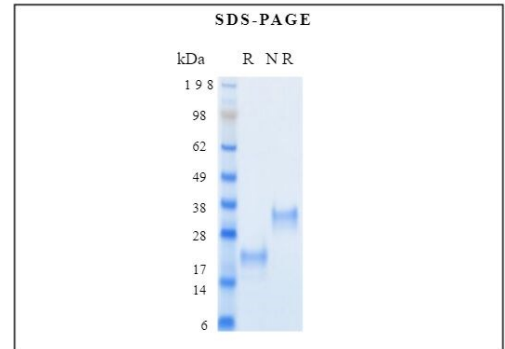
Alternative Names	ATF, ATF1, ATF2, GDNF, HFB1 GDNF, hGDNF
Source	Human Embryonic Kidney cells (HEK293). HEK293-derived GDNF protein

Specifications

Test	Method	Specification
Activity	Dose-dependent stimulation of the proliferation of SH-SY5Y cells	Typically ≤ 10 ng/mL EC50
Molecular Mass	SDS-PAGE	33 to 36 kDa, homodimer, glycosylated
Purity	SDS-PAGE	>95%
Endotoxin	LAL	<1 EU/g

Activity Data

SDS-PAGE



Preparation	
Shipping Temperature	ambient temperature
Formulation	1x PBS
Reconstitution	Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile 1x PBS containing 0.1% endotoxin-free recombinant human serum albumin (HSA).

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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