

Datasheet for ABIN7274722
GDNF Protein (AA 78-211)

3 Images

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Overview

Quantity:	100 µg
Target:	GDNF
Protein Characteristics:	AA 78-211
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Purpose:	Human GDNF Protein
Sequence:	Ser78-Ile211
Characteristics:	Recombinant Human GDNF Protein is expressed from E.coli without tagIt contains Ser78-Ile211.
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human GDNF, No Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human GFR alpha 1, His Tag with the EC50 of 3.7ng/ml determined by ELISA. See testing image for detail.

Target Details

Target:	GDNF
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Target Details

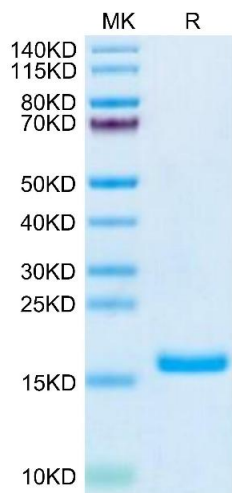
Alternative Name:	GDNF (GDNF Products)
Background:	Glial cell line-derived neurotrophic factor (GDNF) is a 134 amino acid protein belonging in the GDNF family ligands (GFLs). GDNF was originally isolated from rat glial cell lines and identified as a neurotrophic factor with the ability to promote dopamine uptake within midbrain dopaminergic neurons.
Molecular Weight:	15.06 kDa same as Tris-Bis PAGE result.
Pathways:	RTK Signaling , Synaptic Membrane , Tube Formation , Autophagy , Smooth Muscle Cell Migration

Application Details

Restrictions:	For Research Use only
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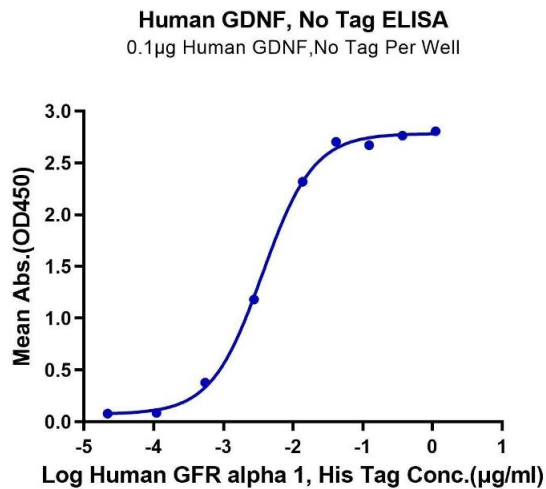
Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months after reconstitution.,2-8°C for 2-7 days after reconstitution.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



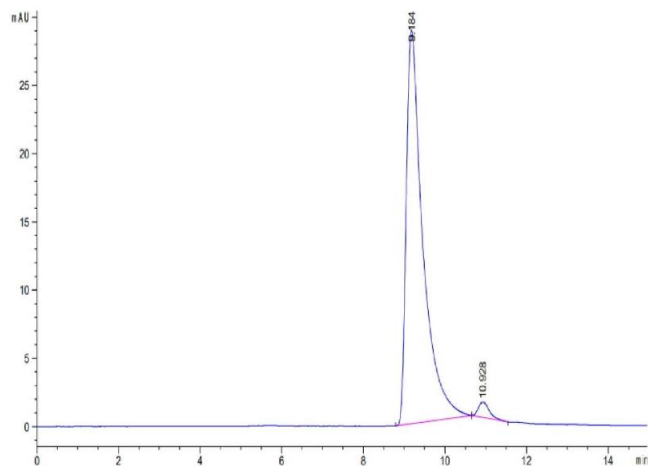
SDS-PAGE

Image 1. Human GDNF on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



ELISA

Image 2. Immobilized Human GDNF, No Tag at 1 µg/mL (100 µL/well) on the plate. Dose response curve for Human GFR alpha 1, His Tag with the EC50 of 3.7 ng/mL determined by ELISA.



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 3. The purity of Human GDNF is greater than 95 % as determined by SEC-HPLC.