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Datasheet for ABIN7274810

HGF Protein (AA 32-728) (Fc Tag)

2 Images

Overview

Quantity:	100 µg
Target:	HGF
Protein Characteristics:	AA 32-728
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HGF protein is labelled with Fc Tag.

Product Details

Purpose:	Human HGF Protein
Sequence:	Gln32-Ser728
Characteristics:	Recombinant Human HGF Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Gln32-Ser728.
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 HGF R, His Tag at 2µg/ml (100µl/Well) on the plate. Dose response curve for Human HGF, hFc Tag with the EC50 of 15.2ng/ml determined by ELISA. See testing image for detail.

Target Details

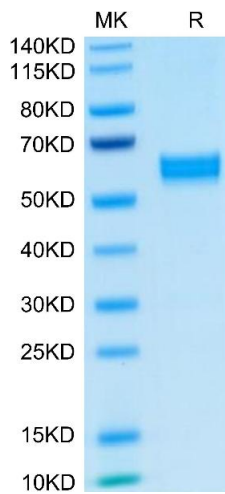
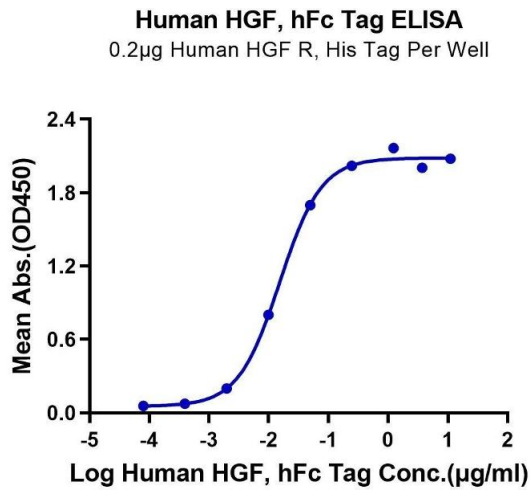
Target:	HGF
Alternative Name:	HGF (HGF Products)
Background:	Hepatocyte growth factor (HGF) is an important component of the pathophysiology of IR, with increased levels in most common IR conditions, including obesity. HGF has a role in the metabolic flux of glucose in different insulin sensitive cell types, plays a key role in β -cell homeostasis, and is capable of modulating the inflammatory response. HGF plays a central role in these metabolic disorders, HGF levels could be employed as a biomarker for disease status/progression, and HGF/c-Met signaling pathway modulators could effectively regulate IR and treat diabetes.
Molecular Weight:	the signal peptide). Due to glycosylation, the protein migrates to 60-65 kDa corresponding to α chain and β chain based on Bis-Tris PAGE result.
Pathways:	RTK Signaling , Carbohydrate Homeostasis , Glycosaminoglycan Metabolic Process , Synaptic Membrane , Signaling of Hepatocyte Growth Factor Receptor

Application Details

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μ g/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22 μ m filtered solution in PBS, 100 mM L-arginine (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



ELISA

Image 1. Immobilized Human HGF R, His Tag at 2 µg/mL (100 µL/Well) on the plate. Dose response curve for Human HGF, hFc Tag with the EC50 of 15.2 ng/mL determined by ELISA.

SDS-PAGE

Image 2. Human HGF on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .