

Datasheet for ABIN2017955
HGF Protein (AA 32-494, AA 495-728)

2 Images

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Overview

Quantity:	50 µg
Target:	HGF
Protein Characteristics:	AA 32-494, AA 495-728
Origin:	Human
Source:	CHO Cells
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Characteristics:	ED50 < 10 ng/mL, measured in a cell proliferation assay using 4MBr5 cells, corresponding to a specific activity of > 1x10 ⁵ units/mg. Alpha chain: AA 32-494, beta chain: AA 495-728
Purity:	> 95 % as analyzed by SDS-PAGE.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

Target Details

Target:	HGF
Alternative Name:	Hepatocyte Growth Factor (HGF) (HGF Products)
Background:	Hepatocyte Growth Factor (HGF), also known as hepatopoietin-A and scatter factor, is a pleiotropic mitogen belonging to the peptidase S1 family (plasminogen subfamily). It is produced by mesenchymal cells and acts on epithelial cells, endothelial cells and haemopoietic

Target Details

progenitor cells. HGF binds to the proto-oncogenic c-Met receptor to activate a tyrosine kinase signaling cascade. It regulates cell growth, motility and morphogenesis, thus it plays a pivotal role in angiogenesis, tumorigenesis and tissue regeneration. Recombinant human Hepatocyte Growth Factor (rhHGF) is produced in CHO cells and consists of two polypeptide chains (alpha-chain and beta-chain) held by a single disulfide bond resulting in the formation of a biologically active heterodimer. The alpha-chain consists of 463 amino acid residues and four kringle domains. The beta-chain consists of 234 amino acid residues. A fully biologically active molecule, rhHGF has a molecular mass of around 88-90 kDa analyzed by reducing SDS-PAGE.

Synonyms:

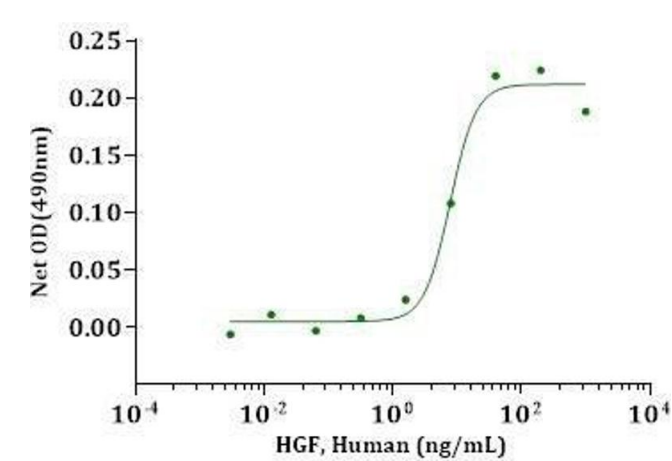
Molecular Weight:	88-90 kDa (single chain), 59-61kDa (alpha chain), 30-34kDa (beta chain), observed by reducing SDS-PAGE.
Pathways:	RTK Signaling , Carbohydrate Homeostasis , Glycosaminoglycan Metabolic Process , Synaptic Membrane , Signaling of Hepatocyte Growth Factor Receptor

Application Details

Restrictions:	For Research Use only
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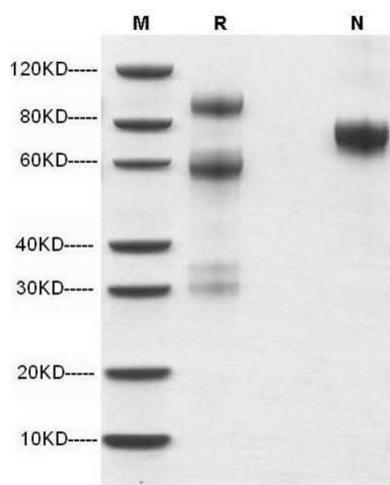
Handling

Format:	Lyophilized
Reconstitution:	Reconstituted in ddH ₂ O or PBS at 100 µg/mL.
Buffer:	Lyophilized after extensive dialysis against PBS.
Storage:	-80 °C
Storage Comment:	Lyophilized recombinant human Hepatocyte Growth Factor (HGF) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, human Hepatocyte Growth Factor (HGF) should be stable up to 1 week at 4 °C or up to 2 months at -20 °C.
Expiry Date:	6 months



Activity Assay

Image 1. HGF, Human stimulates cell proliferation of the 4MBr5 cells. The ED50 for this effect is less than 10ng/mL(7.2 ng/mL).



SDS-PAGE

Image 2. 5 µg of HGF, Human was resolved with SDS-PAGE under reducing (R) and non-reducing (N) conditions and visualized by Coomassie Blue staining.