

Datasheet for ABIN2745697 HGF Protein



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Overview

Quantity:	5 µg
Target:	HGF
Origin:	Human
Source:	Insect cells (Sf9)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	SDS-PAGE (SDS)

Product Details

Cross-Reactivity:	Human
Characteristics:	Human HGF (692aa).
Purity:	>90 % (SDS-PAGE)

Target Details

Target:	HGF
Alternative Name:	HGF (HGF Products)

Background: Human hepatocyte growth factor (HGF) is synthesized as a biologically inactive single chain precursor, which is cleaved by a specific, extracellular serum serine protease to a fully active heterodimer. It stimulates the motility and invasion of several cancer cell types and can induce angiogenesis. All biological responses induced by HGF are elicited by binding to its transmembrane tyrosine kinase receptor. HGF function is essential for normal development.

Target Details

Knockout studies have demonstrated that both ligand and receptor deficient mice display an embryonic lethal phenotype. HGF synergizes with basic FGF in the induction of angiogenesis. HGF is a potent mitogen for mature parenchymal hepatocyte cells and is a pleiotrophic cytokine. It acts as growth factor for a broad spectrum of tissues and cell types. It has no detectable protease activity. It is an activating ligand for the receptor tyrosine kinase MET by binding and promoting its dimerization.

Molecular Weight: ~78kDa

UniProt: [P14210](#)

Pathways: [RTK Signaling](#), [Carbohydrate Homeostasis](#), [Glycosaminoglycan Metabolic Process](#), [Synaptic Membrane](#), [Signaling of Hepatocyte Growth Factor Receptor](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Comment: The activity was assayed for scattering activity in the MDCK cell assay. The ED50 for this effect is typically at 1.0-5.0ng/ml.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: HGF is soluble in water and most aqueous buffers. The lyophilized powder can be reconstituted in water to a concentration of 100 µg/mL. Further dilutions should be made into buffer containing protein or medium containing serum.

Concentration: Lot specific

Buffer: Lyophilized.

Storage: 4 °C, -20 °C

Storage Comment: Short Term Storage: +4°C
Long Term Storage: -20°C
Stable for at least 6 months after receipt when stored at -20°C.

Expiry Date: 6 months