

HumanKine® recombinant human HGF protein



Animal Component-Free

Human cell expressed

Tag-Free

Endotoxin Free

Product Description

Animal-free Recombinant Human HGF is expressed in human 293 cells and has an apparent molecular mass of 70 kDa. The molecular mass of HGF is lower compared to the reported range for this cytokine expressed in NS0 cells (70 to 80 kDa) which emphasizes the difference in post translational modifications. HGF is produced in a serum-free, chemically defined media. HGF is a mesenchymally derived protein mitogen for mature parenchymal hepatocyte cells and acts as a growth factor for a broad spectrum of tissues and cell types.

Alternative Names F TCF, Hepatocyte growth factor, Hepatopoeitin A, HGF, HGFB, HPTA, Scatter factor, SF

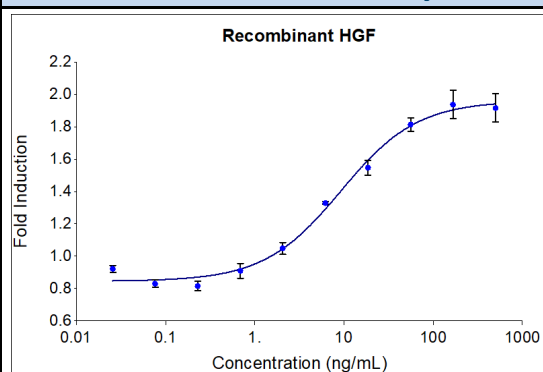
Source Human Embryonic Kidney cells (HEK293). HEK293-derived HGF protein

Species Reactivity human, monkey, mouse, canine, rat, zebrafish

Specifications

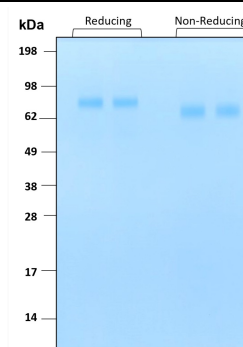
Test	Method	Specification
Activity (EC50)	Dose-dependent stimulation of the proliferation of the monkey epithelial cell line 4MBr-5	5-25 ng/mL
Molecular Mass	SDS-PAGE	85 kDa reduced, 70 kDa non-reduced, single chain, glycosylated
Purity	SDS-PAGE	>95%
Endotoxin	LAL	<1 EU/μg

Activity Data



The activity was determined by the dose-dependent stimulation of the proliferation of the monkey epithelial cell line 4MBr-5 using Promega CellTiter96® Aqueous Non-Radioactive Cell Proliferation Assay.

SDS-PAGE



Preparation	
Shipping Temperature	ambient temperature
Formulation	1x PBS, See Certificate of Analysis for details
Reconstitution	Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein to 0.2 mg/mL in sterile 1x PBS pH 7.4 containing 0.1% endotoxin-free recombinant human serum albumin (HSA). Gently swirl or tap vial to mix.

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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