

HGF, human recombinant

CATALOG #:	4510-10	10 µg
	4510-50	50 µg
	4510-1000	1 mg
LOT #:		
SOURCE:	CHO (Chinese Hamster Ovary) Cells	
PURITY:	≥97% by SDS-PAGE and HPLC analyses	
MOL. WEIGHT:	80 kDa	
FORM:	Sterile filtered and lyophilized powder.	
FORMULATION:	The protein was lyophilized from a concentrated (1 mg/ml) solution containing PBS pH 7.4 + 0.05% Tween 20 and 100 mM L-arginine.	

RECONSTITUTION:

It is recommended to reconstitute the lyophilized Hepatocyte Growth Factor (HGF) in sterile 18MΩ-cm⁻¹ H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

STORAGE CONDITIONS:

Lyophilized HGF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution HGF should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

DESCRIPTION:

Hepatocyte Growth Factor (HGF) is a multifunctional growth factor which regulates both cell growth and cell motility. It exerts a strong mitogenic effect on hepatocytes and primary epithelial cells. HGF synergizes with Interleukin-3 and GM-CSF to stimulate colony formation of hematopoietic progenitor cells *in vitro* and may, therefore, also modulate hematopoiesis. Recombinant human HGF produced in CHO is a heterodimer, non-glycosylated, polypeptide chain consisting of an α-chain of 463 amino acids and β-chain of 234 having a total molecular mass of 80 kDa. The HGF is purified by proprietary chromatographic techniques.

BIOLOGICAL ACTIVITY:

The ED₅₀, calculated by the dose-dependent proliferation of monkey 4MBr-5 indicator cells was found to be 20-40 ng/ml.

FOR RESEARCH USE ONLY! Not to be used on humans.

RELATED PRODUCTS:

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- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

Cell Proliferation & Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

Cell Damage & Repair

- HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits
- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

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- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit

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- CETP Activity Assay & Drug Discovery Kits
- PLTP Activity Assay & Drug Discovery Kits
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- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit
- β-Galactosidase Staining Kit & Luciferase Reporter Assay Kit

Growth Factors and Cytokines

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