

## HDGF Protein, Human, Recombinant (His)

### General Information

Synonyms:	HDGF;Hepatoma-Derived Growth Factor;HMG1L2;High Mobility Group Protein 1-Kike 2;HMG-1L2
Protein Construction:	Met1-Tyr100
Species:	Human
Expression Host:	E. coli
Accession:	P51858
Molecular Weight:	14 KDa (reducing condition)
AA Sequence:	Met1-Tyr100

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM Tris-HCl, 1 mM DTT, 1 mM EDTA, pH 7.5.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Hepatoma-Derived Growth Factor is a original member of the HDGF family. HDGF is a cytoplasmic protein and contains one PWWP domain. HDGF expression levels are high in the nucleus and cytoplasm of smooth muscle and endothelial cells. HDGF has proliferative, angiogenic and neurotrophic activity. HDGF was initially characterized as a secreted mitogen from the Huh-7 human hepatoma cell line. As a heparin-binding protein, which is highly

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expressed in tumor cells where it stimulates proliferation. HDGF has mitogenic activity for fibroblasts and acts as a transcriptional repressor. It has been shown that HDGF is linked with tumorigenesis and the growth of cancer.

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