

# Recombinant Human HDGF

**Cat. No.** HDGF-361H    **Lot. No.** (See product label)

## SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>    | Recombinant human HDGF was expressed in <i>E. coli</i> and purified by using conventional chromatography techniques. MW = 11.5 kDa (100aa).                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>              | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>         | Hepatoma-derived growth factor isoform a, also known as HDGF, belongs to the hepatoma-derived growth factor family. HDGF was originally identified as a secreted mitogen from the human hepatoma cell line Huh-7. This nuclear targeted vascular smooth muscle cell mitogen is a heparin-binding protein that is highly expressed in tumor cells where it stimulates proliferation. HDGF is also reported to be involved in organ development and lung remodeling after injury by promoting proliferation of lung epithelial cells. |
| <b>Amino Acid Sequence</b> | MSRSNRQKEY KCGDLVFAKM KGYPHWPARI DEMPEAAVKS TANKYQVFFF<br>GTHETAFLGP KDLFPYEESK EKFGKPNKRK GFSEGLWEIE NNPTVKASGY                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Form</b>                | Liquid. In 20mM Tris-HCl buffer (pH7.5) containing 1mM DTT, 10% glycerol, 1mM EDTA                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Purity</b>              | > 95% by SDS – PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Concentration</b>       | 1 mg/ml (determined by Bradford assay).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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**Storage**

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**GENE INFORMATION**
**Gene Name**

HDGF hepatoma-derived growth factor (high-mobility group protein 1-like) [ Homo sapiens ]

**Synonyms**

HDGF; hepatoma-derived growth factor (high-mobility group protein 1-like); HMG1L2; FLJ96580; DKFZp686J1764; Hepatoma-derived growth factor; High-mobility group protein 1-like 2; HMG-1L2; OTTHUMP00000038721

**Gene ID**

3068

**mRNA Refseq**

NM\_001126050

**Protein Refseq**

NP\_001119522

**MIM**

600339

**UniProt ID**

P51858

**Chromosome  
Location**

1q21-q23

**Function**

DNA binding; growth factor activity; heparin binding; nucleotide binding

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