

**HGF**  
Catalog # PVGS1405

## Specification

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### HGF - Product Information

Primary Accession [P14210](#)  
Species  
Human

**Sequence**  
alpha chain: Gln32-Arg494; beta chain: Val495-Ser728

**Purity**  
> 95% as analyzed by SDS-PAGE

**Endotoxin Level**  
< 0.2 EU/ µg of protein by gel clotting method

**Biological Activity**  
ED<sub>50</sub> < 10.0 ng/ml, measured in a cell proliferation assay using 4MBr5 cells, corresponding to a specific activity of > 1.0 × 10<sup>5</sup> units/mg.

**Expression System**  
CHO

Formulation **Lyophilized after extensive dialysis against PBS.**

**Reconstitution**  
It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH<sub>2</sub>O or PBS up to 100 µg/ml.

**Storage & Stability**  
Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

### HGF - Additional Information

Gene ID 3082

**Other Names**  
Hepatocyte growth factor, Hepatopoietin-A, Scatter factor, SF, Hepatocyte growth factor alpha chain, Hepatocyte growth factor beta chain, HGF, HPTA

**Target Background**  
Hepatocyte Growth Factor (HGF), also known as hepatopoietin-A and scatter factor, is a pleiotropic mitogen belonging to the peptidase S1 family (plasminogen subfamily). It is produced by mesenchymal cells and acts on epithelial cells, endothelial cells and haemopoietic progenitor cells.

HGF binds to the proto-oncogenic c-Met receptor to activate a tyrosine kinase signaling cascade. It regulates cell growth, motility and morphogenesis, thus it plays a pivotal role in angiogenesis, tumorigenesis and tissue regeneration.

## HGF - Protein Information

**Name** HGF

**Synonyms** HPTA

### Function

Potent mitogen for mature parenchymal hepatocyte cells, seems to be a hepatotrophic factor, and acts as a growth factor for a broad spectrum of tissues and cell types (PubMed:<a href="http://www.uniprot.org/citations/20624990" target="\_blank">20624990</a>). Activating ligand for the receptor tyrosine kinase MET by binding to it and promoting its dimerization (PubMed:<a href="http://www.uniprot.org/citations/15167892" target="\_blank">15167892</a>, PubMed:<a href="http://www.uniprot.org/citations/20977675" target="\_blank">20977675</a>). Activates MAPK signaling following Tmprss13 cleavage and activation (PubMed:<a href="http://www.uniprot.org/citations/20977675" target="\_blank">20977675</a>).

## HGF - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## HGF - Images