

Rev04  
Update: Jan,19,2024

**DATASHEET**

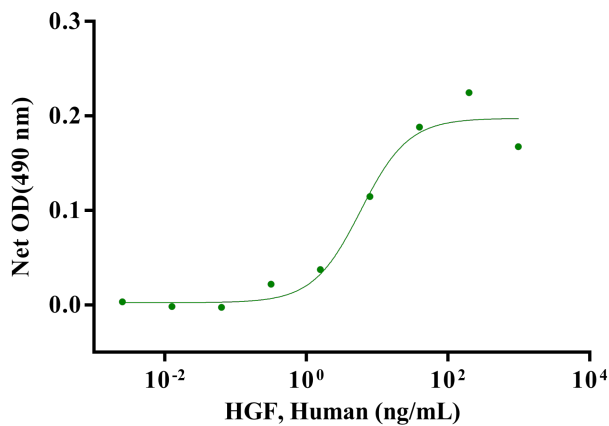
# HGF, Human

Cat. No.: Z03229

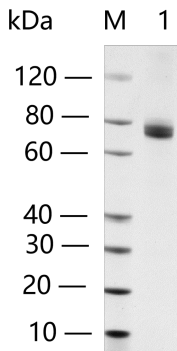
## Product Introduction

<b>Species</b>	Human
<b>Protein Construction</b>	<b>HGF (Gln32-Ser728) Accession # P14210</b>
<b>Purity</b>	> 95% as analyzed by SDS-PAGE
<b>Endotoxin Level</b>	< 0.2 EU/μg of protein by gel clotting method
<b>Biological Activity</b>	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.
<b>Expression System</b>	CHO
<b>Apparent Molecular Weight</b>	88~90 kDa (single chain), 59~61 kDa (alpha chain), 30~34 kDa (beta chain), on SDS-PAGE under reducing conditions.
<b>Formulation</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	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.
<b>Storage &amp; Stability</b>	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.

## Examples



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.



Lane 1: 2 µg of HGF, Human, non-reducing (NR)  
> 95% as analyzed by SDS-PAGE

## Background

**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.

**Synonyms :** HGF; DFNB39; F-TCF; HGFB; HPTA; SF; hepatocyte growth factor

**For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.**

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