



Recombinant Protein Technical Manual  
Recombinant Human HGF Protein (His Tag)(Active)  
RPES0645

#### Product Data:

**Product SKU:** RPES0645

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** P14210

#### Protein Information:

**Molecular Mass:** 26&53.7&80.7 kDa

**AP Molecular Mass:** 105 kDa

**Tag:** C-6His

**Bio-activity:** Measured by its ability to induce IL1 secretion by Saos-2 human osteosarcoma cells. The ED50 for this effect is 0.3.5 ng/ml.

**Purity:** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of 20mM Tris,150mM NaCl,pH8.0.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Hepatocyte growth factor;HPTA;HGF;SF;Scatter factor;Hepatopietin-A

## Immunogen Information:

**Sequence:** Gln32-Ser728

## Background:

Hepatocyte growth factor/scatter factor (HGF/SF) is a paracrine cellular growth, motility and morphogenic factor. It belongs to the peptidase S1 family and Plasminogen subfamily, contains 4 kringle domains, 1 PAN domain and 1 peptidase S1 domain. HGF regulates cell growth, cell motility, and morphogenesis by activating a tyrosine kinase signaling cascade after binding to the proto-oncogenic c-Met receptor. HGF is secreted by mesenchymal cells and acts as a multi-functional cytokine on cells of mainly epithelial origin. Its ability to stimulate mitogenesis, cell motility, and matrix invasion gives it a central role in angiogenesis, tumorigenesis, and tissue regeneration.