

HGF

Recombinant Human Hepatocyte Growth Factor

Catalog No. CRH121B **Quantity:** 10 µg
CRH121C 1 mg

Alternate Names: Hepapoeitin A, Scatter Factor, F-TCF, HGFB, HPTA, SF

Gene ID: 3082

Protein Accession No: P14210

Description: Human Hepatocyte Growth Factor (HGF), also known as Scatter Factor and Hepatopoeitin A, is a potent mitogen for mature parenchymal hepatocytes and acts as a growth factor for a broad spectrum of tissues and cell types. HGF regulates cell growth, cell motility, and morphogenesis by activating a tyrosine kinase signaling cascade after binding to the proto-oncogenic c-Met receptor. It 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.

Recombinant human HGF is an 80 kDa disulfide-linked heterodimeric protein consisting of the α chain (463 amino acids) and the β chain (234 amino acids).

Source: Baculovirus infected High Five Insect Cells (BTI-TN-5B1-4)

Molecular Weight: 78.0 kDa

Formulation: Lyophilized from a sterile filtered solution containing 50 mM acetic acid

Purity: \geq 98% as determined by RP-HPLC and SDS-PAGE analyses

Endotoxin Level: $<$ 0.1 ng/µg of HGF

Biological Activity: Determined by the scattering activity in the MDCK cell assay. The ED₅₀ is typically 0.5 -1.0 ng/ml.

Reconstitution: **Centrifuge vial prior to opening.** Reconstitute in sterile distilled water to a concentration of 0.5-1.0 mg/ml. This solution can then be diluted into other aqueous buffers

Storage & Stability: Store lyophilized protein at -20°C to -80°C. Reconstituted protein is stable for 1 week at 2-4°C. For long term storage, aliquot and store at -20°C to -80°C. **Avoid repeated freeze-thaw cycles.**

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

