Hepatocyte Growth Factor Human (BTI-Tn-5B1-4) Hi-5 Insect cells*

Product Data Sheet

Type: Recombinant
Source: (BTI-Tn-5B1-4) Hi-5 Insect cells*
Species: Human
Other names: HGF

Cat. No.:	
RBG10177002	(2 µg)
RBG10177010	(10 µg)
RBG10177100	(100 µg)

Description

HGF is a potent, mesenchymally-derived mitogen for mature parenchymal hepatocytes, and acts as a growth factor for a broad spectrum of tissues and cell types. HGF signals through a transmembrane tyrosine kinase receptor known as MET. Activities of HGF include the induction of cell proliferation, motility, morphogenesis, inhibition of cell growth, and enhancement of neuron survival. HGF is a crucial mitogen for liver regeneration processes, especially after partial hepatectomy and other liver injuries. Human and murine HGF are cross-reactive. Human HGF is expressed as a linear, polypeptide-precursor glycoprotein containing 697 amino acid residues. Proteolytic processing of this precursor generates the biologically active heterodimeric form of HGF, which consists of two polypeptide chains (alpha-chain and beta-chain) held together by a single disulfide bond resulting in formation of a biologically active heterodimer. The alpha-chain consists of 463 amino acid residues and four kringle domains. The beta-chain consists of 234 amino acid residues. Recombinant Human HGF is an 80.0 kDa polypeptide consisting of 697 amino acid residues.

Research topic

Cytokines and chemokines and related molecules

Source

(BTI-Tn-5B1-4) Hi-5 Insect cells*

Purity

98%

Biological Activity

The ED_{50} was determined by the dose-dependent stimulation of the proliferation of monkey 4MBr-5 cells was found to be in the range of 20.0-40.0 ng/ml.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.5 mg/ml. Do not vortex. Note: Allow the reconstituted vial to sit at room temperature for 1 hour before use. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Storage, Stability/Shelf Life

-20°C

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