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

Product Data Sheet

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

Cat. No.:

RBG20077005	(5 µg)
RBG20077020	(20 µg)
RBG20077100	(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. Murine HGF is expressed as a linear, polypeptide-precursor glycoprotein containing 696 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 233 amino acid residues. Recombinant Murine HGF is a 79.3 kDa polypeptide consisting of 696 amino acid residues.

Research topic

Cytokines and chemokines and related molecules

Source

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

Purity

95%

Biological Activity

Determined by the dose-dependent stimulation of the proliferation of mouse IMCD3 cells using a concentration range of 10-20 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 0.1-1.0 mg/ml. Note: Slow to dissolve. Do not vortex. 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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