

Please note: This document was created automatically and is not a substitute for the manufacturer's original document.

Product Datasheet

Human HGF protein, His tag (active), Unconjugated GTX00206-PRO

Article Name	Human HGF protein, His tag (active), Unconjugated
Biozol Catalog Number	GTX00206-PRO
Supplier Catalog Number	GTX00206-pro
Alternative Catalog Number	GTX00206-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Human
Conjugation	Unconjugated
NCBI	3082
UniProt	P14210
Buffer	Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose, ProClin 300.
Expression System	E. coli
Form	Lyophilized powder
Sequence	N-terminal His-Tag, Val495~Ser728 (NP_000592.3)

Application Notes

Hepatocyte growth factor (HGF) is a paracrine cellular growth, motility and morphogenic factor. It is secreted by mesenchymal cells and targets and acts primarily upon epithelial cells and endothelial cells, but also acts on haemopoietic progenitor cells and T cells. It has been shown to have a major role in embryonic organ development, specifically in myogenesis, in adult organ regeneration, and in wound healing. Besides, Heparan sulfate proteogly (HSPG) has been identified as an interactor of HGF, thus a binding ELISA assay was conducted to detect the interaction of recombinant human HGF and recombinant human HSPG. Briefly, HGF were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 μ l were then transferred to HSPG-coated microtiter wells and incubated for 2h at 37C. Wells were washed with PBST and incubated for 1h with anti- HGF pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37C. Finally, add 50 μ l stop solution to the wells and read at 450nm immediately. The binding activity of HGF and HSPG was in a dose dependent manner. To test the effect of HGF on cell proliferation of HepG2 cell line, cells were seeded into triplicate wells of 96-well plates at a density of 2000 cells/well and allowed to attach overnight, then the medium was replaced with serum-free standard DMEM prior to the addition of various concentrations of HGF. After incubated for 72h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10 μ l of CCK-8 solution was added to each well of the plate, then measure the absorbance at 450nm using a microplate reader after incubating the plate for 1-4 hours at 37C.