Human HGF (glycosylated, InCs)

Human Hepatocyte Growth factor, recombinant

Synonyms: HGF, SF, HGFB, HPTA, F-TCF, DFNB39, Hepatocyte growth factor, Scatter factor, rh HGF

PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING

Size	Order #	Lot #	Expiry Date
5 µg	2790.952.005		
10 µg	2790.952.010		
25 µg	2790.952.025		
100 µg	2790.952.100		
500 µg	2790.952.500		
1 mg	2790.952.199		

Please enquire for bulk quantities and other vial sizes

Description

Recombinant human Hepatocyte Growth Factor (HGF) is a 78.0 kDa disulfide-linked heterodimeric protein. HGF is a multifunctional polypeptide that acts in a paracrine fashion on a wide variety of cell types. Human HGF, also know as scatter factor, is a pleiotrophic cytokine that shows homology to the enzymes of the blood coagulation cascade. Hepatocytes have to be primed (e.g. TNF and IL-6) before they can fully respond to HGF. Recent studies suggest that HGF synergizes with FGF-basic in the induction of angiogenesis.

- **Source** Insect cells
- **Purity** ≥ 95 % (SDS-PAGE, silver stained)
- **Endotoxin level** ≤ 0.1ng/µg (≤ 1EU/µg)
- **Buffer** Acetic Acid (50mM)*
- **Physical state** Sterile filtered, lyophilized

Biological Activity

The ED_{50} of ≤ 5 ng/ml was determined by scattering activity in MDCK cells. It corresponds to a specific activity of ≥ $2x10^5$ units/mg.

Reconstitution

The lyophilized HGF is soluble in acetic acid 50mM. The lyophilized product should be reconstituted to a concentration of 100µg/ml. It is recommended that further dilutions be made into buffer containing carrier protein (e.g. HSA ultra pure, 2835.958.xyz) or medium containing serum.

Stability

The lyophilized protein, though stable at room temperature, is best stored desiccated below -18°C. Reconstituted HGF should be stored in working aliquots at -20°C to -70°C. **Please avoid repeated freeze-thaw cycles**.

Amino Acid Sequence

alpha chain:

QRKRRNTIHE FKKSAKTTLI KIDPALKIKT KKVNTADQCA NRCTRNKGLP FTCKAFVFDK ARKQCLWFPF
NSMSSGVKKE FGHEFDLYEN KDYIRNCIIG KGRSYKGTVS ITKSGIKCQP WSSMIPHEHS FLPSSYRGKD
LQENYCRNPR GEEGGPWCFT SNPEVRYEVC DIPQCSEVEC MTCNGESYRG LMDHTESGKI CQRWDHQTPH
RHKFLPERYP DKGFDDNYCR NPDGQPRPWC YTLDPHTRWE YCAIKTCADN TMNDTDVPLE TTECIQGQGE
GYRGTVNTIW NGIPCQRWDS QYPHEHDMTP ENFKCKDLRE NYCRNPDGSE SPWCFTTDPN IRVGYCSQIP
NCDMSHGQDC YRGNGKNYMG NLSQTRSGLT CSMWDKNMED LHRHIFWEPD ASKLNENYCR NPDDDAHGPW
CYTGNPLIPW DYCPISRCEG DTTPTIVNLD HPVISCAKTK QLR

*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.

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beta chain:
VVNGIP TRTNIGWMVS LRYRNKHICG GSLIKESWVL TARQCFPSRD LKDYEAWLGI HDVHGRGDEK CKQVLNVSQL VYGPEGSDLV LMKLARPAVL DDFVSTIDLP NYGCTIPEKT SCSVYGWGYT GLINYDGLLR VAHLYIMGNE KCSQHHRGKV TLNESEICAG AEKIGSGPCE GDYGGPLVCE QHKMRMVLGV IVPGRGCAIP NRPGIFVRVA YYAKWIHKII LTYKVPQS

Biological Activity of Human HGF (glycosylated, InCs)

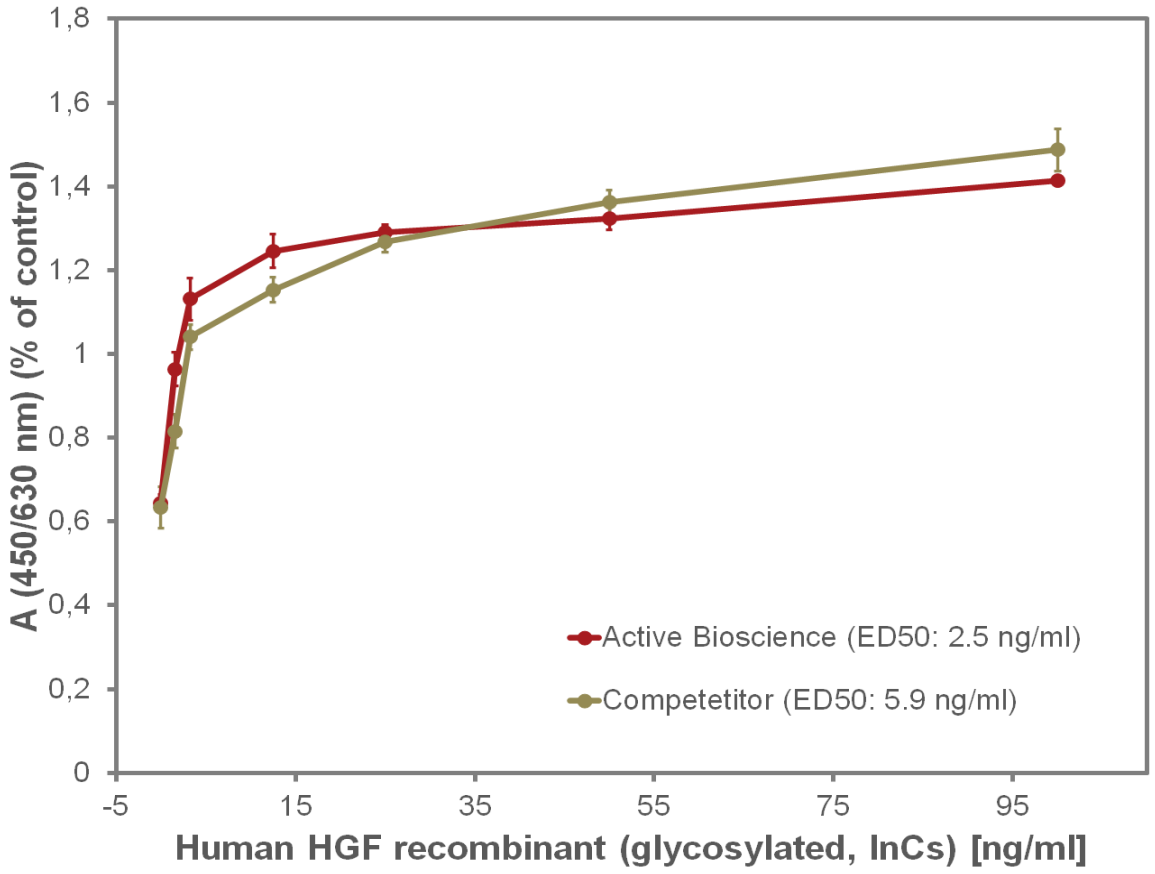

Fig 1: Measurement of scattering activity in MDCK cells by recombinant human HGF and a competitor. Values are the means (±SD) of triplicate determinations and expressed as percentage of control.

Usage: For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

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