

Human HGF, cct-premium (glycosylated, InCs)

Human Hepatocyte Growth factor, cct-premium, 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
25 µg	2791.952.025		
100 µg	2791.952.100		
500 µg	2791.952.500		
1 mg	2791.952.199		

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 known 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** ≤ 0.01ng/µg (≤ 1EU/µg)
- **Buffer** Acetic Acid (50mM)*
- **Physical state** Sterile filtered, lyophilized

Biological Activity

The ED₅₀ of ≤ 3 ng/ml was determined by scattering activity in MDCK cells in direct comparison with WHO Standard 96/564. It corresponds to a specific activity of ≥ 3.3x10⁵ units/mg.

Reconstitution

The lyophilized HGF, cct-premium is best soluble in 50mM acetic acid. It should be reconstituted to a concentration of 100µg/ml. We recommend that further dilutions should 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 for at least 3 weeks, is best stored desiccated below -18°C. Reconstituted HGF, cct-premium 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 NRCTRNGKLP FTCKAFVFDK ARKQCLWFPF
 NSMSSGVKKE FGHEFDLYEN KDYIRNCIIG KGRSYKGTVS ITKSGIKCQP WSSMIPHEHS FLPSSYRGKD
 LQENYCRNPR GEEGGPWCFT SNPEVRYEVC DIPQCSEVEC MTCNGESYRG LMDHTESGKI CQRWDHQTPH
 RHKFLPERYP DKGFDNNYCR NPDGQPRPWC YTLDPHTRWE YCAIKTCADN TMNDTDVPLE TTECIQGQGE
 GYRGTVNTIW NGIPCQRWDS QYPHEHDMTP ENFKCKDLRE NYCARNPDGSE SPWCFTTDPN IRVGYSQIP
 NCDMSHGQDC YRGNKKNYMG NLSQTRSGLT CSMWDKNMED LHRHIFWEPD ASKLNENYCR NPDDDAHGPW
 CYTGNPLIPW DYCPISRCEG DTTPTIVNLD HPVISCATK 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
CKQVLNVSQQL VYGPEGSDLV LMKLARPAVL DDFVSTIDL PNYGCTIPEKT SCSVYGWGYT GLINYDGLLR
VAHLYIMGNE KCSQHHRGKV TLNESEICAG AEKIGSGPCE GDYGGPLVCE QHKMRMVLGV IVPGRGCAIP
NRPGIFVRVA YYAKWIIHKII LTYKVPQS

SDS-PAGE and Biological Activity of Human HGF, cct-premium (glycosylated, InCs)

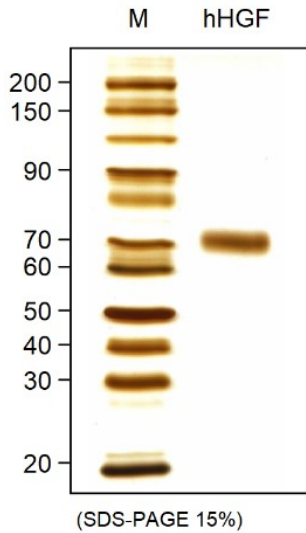


Fig 1: SDS-PAGE analysis of recombinant human HGF, cct-premium derived from insect cells. Sample was loaded in 10% SDS-polyacrylamide gel under non-reducing conditions and stained with silver stain.

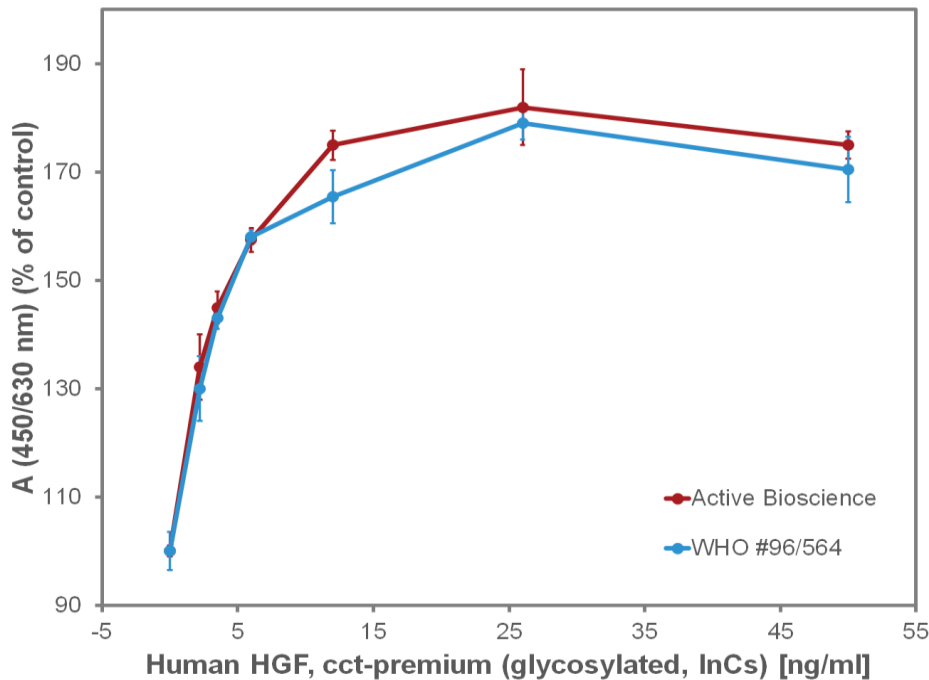


Fig 2: Measurement of scattering activity in MDCK cells by recombinant human HGF, cct-premium and the WHO standard 96/564. Values are the means (\pm SD) of triplicate determinations and expressed as percentage of control.

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

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