

Recombinant Human HGF Activator

Cat. No. HGFAC-144H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HGF activator encoding the complete human HGF protein isoform 1 (comprising the signal peptide, and alpha and beta chains) was expressed in modified <i>human 293 cells</i> .
Species	Human
Source	HEK293
Description	Hepatocyte growth factor (HGF) consists of two subunits linked by a disulfide bond. The alpha subunit of HGF has a length of 440 amino acids and the beta subunit has a length of 234 amino acids. Both subunits of HGF are obtained by endoproteolytic cleavage of a common preproprotein which itself is biologically inactive.
Amino Acid Sequence	QRKRRNTIHEFKKSAKTTLIKIDPALKIKTKKVNTADQCANRCTRNGLPFTCKAFVF DKARKQCLWFPFNSMSSGVKKEFGHEFDLYENKDYIRNCIIGKGRSYKGTVSITKSG IKCQPWSSMIPHEHSFLPSSYRGKDLQENYCRNPRGEEGGPWCFTSNPEVRYEVC DIPQCSEVECMTCNGESYRGLMDHTESGKICQRWDHQTPHRHKFLPERYPDKGFD DNYCRNPDGQPRPWCYTLDPHTRWEYCAIKTCADNTMNDTDVPLETTECIQGQGE GYRGTVNTIWNIGIPCQRWDSQYPHEHDMTPENFKCKDLRENYCRNPDGSESPWC FTTDPNIRVGYSQIPNCDSHGGQDCYRGNGKNYMGNLSQTRSGLTCSMWDKNM EDLHRHIFWEPDASKLNENYCRNPDDDAHGPWCYTGNPLIPWDYCPISRCEGDTTP TIVNLDHPVISCAKTKQLRVVNGIPTRTNIGWMVSLRYRNKHICGGSLIKESWVLTAR QCFPSRDLKDYEAWLGIHDVHGRGDEKCKQVLNVSQLVYGPEGSDDLVLMLKLARPA VLDDFVSTIDLPNYGCTIPEKTSCSVYGWGYTGLINYDGLLRVAHLYIMGNEKCSQH

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	HRGKVTLNESEICAGAEKIGSGPCEGDYGGPLVCEQHKMRMVLGVIVPGRGCAIPN RPGIFVRVAYYAKWIHKIILTYKVPQS.
Molecular Mass	Under reducing conditions HGF migrates as a broad band between 80 and 110 kDa in SDS-PAGE due to post-translational modifications, in particular glycosylation.
pI	HGF separates into a number of isoforms with a pI between 6 and 9 in 2D PAGE due to post-translational modifications, in particular glycosylation.
% Carbohydrate	Purified HGF consists of 0-30% carbohydrate by weight.
Glycosylation	HGF contains N- and O-linked oligosaccharides.
Purity	>95%, as determined by SDS-PAGE and visualised by Coomassie Brilliant Blue.
Formulation	When reconstituted in 0.5 ml sterile phosphate-buffered saline, the solution will contain 1% human serum albumin (HSA) and 10% trehalose.
Reconstitution	It is recommended that 0.5 ml of sterile phosphate-buffered saline be added to the vial.
Storage	Lyophilised products should be stored at 2 to 8°C.
Activity	The ED ₅₀ of HGF is typically 20 - 40 ng/ml as measured in a cell proliferation assay using the human HepG2 cell line.

GENE INFORMATION

Gene Name	HGFAC HGF activator [Homo sapiens]
Synonyms	HGFAC; HGF activator; HGFA; MGC138395; MGC138397; EC 3.4.21.;Hepatocyte

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growth factor activator; Hepatocyte growth factor activator short chain; Hepatocyte growth factor activator long chain

Gene ID [3083](#)

mRNA Refseq [NM_001528](#)

Protein Refseq [NP_001519](#)

UniProt ID [Q04756](#)

Chromosome Location 4p16

MIM [604552](#)

Function peptidase activity; protein binding; serine-type endopeptidase activity

PDB rendering based on 1bht.

