

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 human 293 cells.
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	QRKRRNTIHEFKKSAKTTLIKIDPALKIKTKKVNTADQCANRCTRNGKLPFTCKAFVF DKARKQCLWFPFNSMSSGVKKEFGHEFDLYENKDYIRNCIIGKGRSYKGTVSITKSG IKCQPWSSMIPHEHSFLPSSYRGKDLQENYCRNPRGEEGGPWCFTSNPEVRYEVC DIPQCSEVECMTCNGESYRGLMDHTESGKICQRWDHQTPHRHKFLPERYPDKGFD DNYCRNPDGQPRPWCYTLDPHTRWEYCAIKTCADNTMNDTDVPLETTECIQGQGE GYRGTVNTIWNIGIPCQRWDSQYPHEHDMTPENFKCKDLRENYCRNPDGSESPWC FTTDPNIRVGYSQIPNCDSHGGQDCYRGNGKNYMGNLSQTRSGLTCSMWDKNM EDLHRHIFWEPDASKLNENYCRNPDDDAHGPWCYTGNPLIPWDYCPISRCEGDTTP TIVNLDHPVISCAKTKQLRVVNGIPTRTNIGWMVSLRYRNKHICGGSLIKESWVLTAR QCFPSRDLKDYEAWLGIHDVHGRGDEKCKQVLNVSQLVYGPEGSDDLVLMLKLARPA VLDDFVSTIDLPNYGCTIPEKTSCSVYGWGYTGLINYDGLLRVAHLYIMGNEKCSQH

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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.

