

# Human HGF Recombinant Protein, PeproTech®

## Product Details

Size	10 µg
Species	Human
Published Species	Dog, Rabbit, Rat, Human, Mouse
Expression system	Insect cells
Amino acid sequence	Alpha chain: QRKRRNTIHE FKKSATTLI KIDPALKIKT KKVNTADQCA NRCTRNGKLP FTCKAFVFDK ARKQCLWFPF NSMSSGVKKE FGHEFDLYEN KDYIRNCIIG KGRSYKGTVS ITKSGIKCQP WSSMIPHEHS FLPSSYRGKD LQENYCRNPR GEEGGPWCFT SNPEVRYEVC DIPQCSEVEC MTCNGESYRG LMDHTESGKI CQRWDHQTPH RHKFLPERYP DKGFDNRYCR NPDGQPRPWC YTLDPHTRWE YCAIKTCADN TMNDTDVPLE TTECIQGQGE GYRGTVNTIW NGIPCQRWDS QYPHEHDMTP ENFKCKDLRE NYCRNPDGSE SPWCFTTDPN IRVGYCSQIP NCDMSHGQDC YRGNGKNYMG NLSQTRSLT CSMWDKNMED LHRHIFWEPD ASKLNENYCR NPDDDAHGPW CYTGNPLIPW DYCPISRCEG DTTPTIVNLD HPVISCAKTK QLR.   Beta chain: VVNGIPTRTN IGWMVSLRYR NKHICGGLI KESWVLTARQ CFPSRDLKDY EAWLGIHVDH GRGDEKCKQV LNVSQLVYGP EGSDLVLMKL ARPAVLDDFV STIDLPNYGC TIPEKTSCSV YGWGYTGlin YDGLLRVAHL YIMGNEKCSQ HHRGKVTLINE SEICAGAEKI GSGPCEGDYD GPLVCEQH KM RMVLGVIVPG RGCAIPNRPG IFVRVAYYAK WIKIILTYK VPQS.
Molecular weight	80 kDa
Class	Recombinant
Type	Protein
Purity	98% by SDS-PAGE gel and HPLC analyses.
Endotoxin concentration	<1 EU/µg
Activity	Determined by the dose-dependent stimulation of the proliferation of monkey 4MBr-5 cells. The expected ED50 for this effect is 1.0-20.0 ng/ml.
Conjugate	Unconjugated
Form	Lyophilized
Purification	purified
Contains	no preservative
Storage conditions	-20°C

Applications	Tested Dilution	Publications
ELISA (ELISA)	-	1 Publication
Functional Assay (Functional)	Assay-dependent	-
In vitro Assay (IV)	-	195 Publications
Competition Assay (CA)	-	1 Publication
Miscellaneous PubMed (Misc)	-	32 Publications
Immunostaining (IS)	-	1 Publication

## Product Specific Information

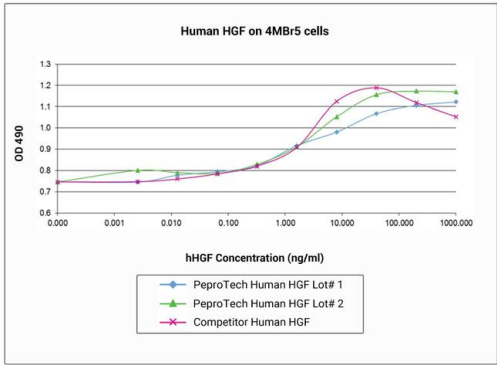
100-39-1MG will be provided as 4 x 250 µg (100-39-250UG).

100-39-500UG will be provided as 2 x 250 µg (100-39-250UG).

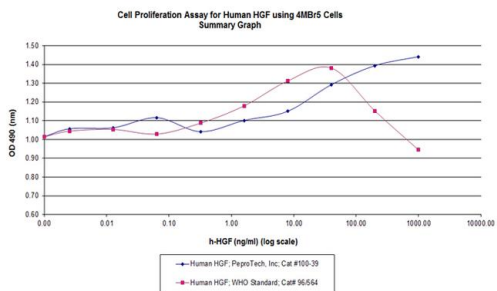
Recombinant Human HGF is an 80.0 kDa polypeptide consisting of 697 amino acid residues.

This product is shipped at ambient temperature. For storage, handling and reconstitution information, please see the lot-specific Certificate of Analysis

Product Images For Human HGF Recombinant Protein, PeproTech®



**Human HGF Protein (100-39-10UG) in Functional**  
Bioassay analysis of Human HGF Recombinant Protein, PeproTech® (Product # 100-39-1MG).



**Human HGF Protein (100-39-10UG) in Functional**  
WHO Comparison of Human HGF Recombinant Protein, PeproTech® (Product # 100-39-1MG).

ELISA (1)

Cell systems	Year 2020
<b>Receptor-Driven ERK Pulses Reconfigure MAPK Signaling and Enable Persistence of Drug-Adapted BRAF-Mutant Melanoma Cells.</b>	
"100-39 was used in Enzyme-linked immunosorbent assay to show that pulsatile MAPK activation by factors in the microenvironment generates a persistent population of melanoma cells that rewires MAPK signaling to sustain non-genetic drug resistance."	
Authors: Gerosa L,Chidley C,Fröhlich F,Sanchez G,Lim SK,Muhlich J,Chen JY,Vallabhaneni S,Baker GJ,Schapiro D,Atanasova MI,Chylek LA,Shi T,Yi L,Nicora CD,Claas A,Ng TSC,Kohler RH,Lauffenburger DA,Weissleder R,Miller MA,Qian WJ,Wiley HS,Sorger PK	

In vitro Assay (195)

Cellular oncology (Dordrecht, Netherlands)	Year 2024
<b>Host-derived growth factors drive ERK phosphorylation and MCL1 expression to promote osteosarcoma cell survival during metastatic lung colonization.</b>	
"100-39 was used in In vitro experiments to develop therapeutic strategies that prevent and treat metastasis by identifying mechanisms that facilitate survival of disseminated tumour cells."	
Authors: McAloney CA,Makkawi R,Budhathoki Y,Cannon MV,Franz EM,Gross AC,Cam M,Vetter TA,Duhen R,Davies AE,Roberts RD	
	Species Human

NPJ systems biology and applications	Year 2023
<b>Predicting ligand-dependent tumors from multi-dimensional signaling features.</b>	
Authors: Hass H,Masson K,Wohlgemuth S,Paragas V,Allen JE,Sevecka M,Pace E,Timmer J,Stelling J,MacBeath G,Schoeberl B,Raue A	
	Species Human

[View more IV references on thermofisher.cn](#)

Competition Assay (1)

Nature communications	Year 2022
<b>Hepatocyte growth factor derived from senescent cells attenuates cell competition-induced apical elimination of oncogenic cells.</b>	
"100-39 was used in Competition Assay to provide evidence that cellular senescence inhibits cell competition-mediated elimination of oncogenic cells through HGF signaling, suggesting that it may lead to cancer incidence during aging."	
Authors: Igarashi N,Miyata K,Loo TM,Chiba M,Hanyu A,Nishio M,Kawasaki H,Zheng H,Toyokuni S,Kon S,Moriyama K,Fujita Y,Takahashi A	
	Species Dog

More applications with references on thermofisher.cn

- Misc (32)
- IS (1)

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