

Datasheet for ABIN7520064
HGF Protein (His tag)



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Overview

Quantity:	100 µg
Target:	HGF
Origin:	Rat
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This HGF protein is labelled with His tag.

Product Details

Purpose:	Recombinant Rat Hepatocyte growth factor/HGF Protein
Sequence:	QKKRRNTLHE FKksAKTTLT KEDPLVKIKT KKVNSADECA NRCIRNKGFP FTCKAFVFDK SRKRCYWYPF NSMSSGVKKG FGHEFDLYEN KDYIRNCIIG KGGSYKGTVS ITKSGIKCQP WNSMIPHEHS FLPSSYRGKD LQENYCRNPR GEEGPPWCFT SNPEVRYEVC DIPQCSEVEC MTCNGESYRG PMDHTESGKT CQRWDQQTPH RHKFLPERYP DKGFDNDYCR NPDGKPRPWC YTLDPDTPWE YCAIKMCAHS AVNETDVPME TTECIKGQGE GYRGTTNTIW NGIPCQRWDS QYPHKHDITP ENFKCKDLRE NYCRNPDGAE SPWCFTTDPN IRVGYCSQIP KCDVSSGQDC YRGNCKNYMG NLSKTRSGLT CSMWDKNMED LHRHIFWEPD ASKLTKNYCR NPDDDAHGPW CYTGNPLVPW DYCPISRCEG DTTPTIVNLD HPVISCAKTK QLRVVNGIPT QTTVGWMVSL KYRNKHICGG SLIKESWVLT ARQCFPARNK DLKDYEAWLG IHDVHERGEE KRKQILNISQ LVYGPEGSDL VLLKLARPAI LDNFVSTIDL PSYGCTIPEK TTCSIYGWGY TGLINADGLL RVAHLYIMGN EKCSQHHQ GK VTLNESELCA GA EKIGSGPC EGDYGGPLIC EQHKMRMVLG VIVPGRGCAI PNRPGIFVRV AYYAKWIIHKV ILTYKL

Product Details

Specificity:	Gln 33-Leu728
Purity:	> 92 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	<0.001EU/µg
Biological Activity Comment:	Measured in a cell proliferation assay using Mv.1.lu cells. The ED ₅₀ for this effect is 1.6-6.2 ng/mL, corresponding to a specific activity of 1.6x10 ⁵ ~6.3x10 ⁵ units/mg.

Target Details

Target:	HGF
Alternative Name:	Hepatocyte growth factor/HGF (HGF Products)
Background:	Description: Hepatocyte growth factor/scatter factor (HGF/SF) is a paracrine cellular growth, motility and morphogenic factor. It belongs to the peptidase S1 family and Plasminogen subfamily, contains 4 kringle domains, 1 PANDomain and 1 peptidase S1 domain. HGF regulates cell growth, cell motility, and morphogenesis by activating a tyrosine kinase signaling cascade after binding to the proto-oncogenic c-Met receptor. HGF is secreted by mesenchymal cells and acts as a multi-functional cytokine on cells of mainly epithelial origin. Its ability to stimulate mitogenesis, cell motility, and matrix invasion gives it a central role in angiogenesis, tumorigenesis, and tissue regeneration. Name: HPTA, Hepatocyte growth factor, HGF
Gene ID:	24446
UniProt:	P17945
Pathways:	RTK Signaling , Carbohydrate Homeostasis , Glycosaminoglycan Metabolic Process , Synaptic Membrane , Signaling of Hepatocyte Growth Factor Receptor

Application Details

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is

Handling

recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Concentration: 0.67 mg/mL

Buffer: Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.

Storage: -20 °C, -80 °C

Storage Comment: Store the lyophilized protein at -20°C to -80°C for 12 months. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.