Datasheet for ABIN2468521

HGF Protein

Go to Product page

Overview

Quantity:	0.005 mg
Target:	HGF
Origin:	Mouse
Source:	Hi-5 Cells
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Sequence:	Alpha chain: QKKRRNTLHE FKKSAKTTLT KEDPLLKIKT KKVNSADECA NRCIRNRGFT FTCKAFVFDK SRKRCYWYPF NSMSSGVKKG FGHEFDLYEN KDYIRNCIIG KGGSYKGTVS ITKSGIKCQP WNSMIPHEHS FLPSSYRGKD LQENYCRNPR GEEGGPWCFT SNPEVRYEVC DIPQCSEVEC MTCNGESYRG PMDHTESGKT CQRWDQQTPH RHKFLPERYP DKGFDDNYCR NPDGKPRPWC YTLDPDTPWE YCAIKTCAHS AVNETDVPME TTECIQGQGE GYRGTSNTIW NGIPCQRWDS QYPHKHDITP ENFKCKDLRE NYCRNPDGAE SPWCFTTDPN IRVGYCSQIP KCDVSSGQDC YRGNGKNYMG NLSKTRSGLT CSMWDKNMED LHRHIFWEPD ASKLNKNYCR NPDDDAHGPW CYTGNPLIPW DYCPISRCEG DTTPTIVNLD HPVISCAKTK QLR Beta chain: VVNGIPTQTT VGWMVSLKYR NKHICGGSLI KESWVLTARQ CFPARNKDLK DYEAWLGIHD VHERGEEKRK QILNISQLVY GPEGSDLVLL KLARPAILDN FVSTIDLPSY GCTIPEKTTC SIYGWGYTGL INADGLLRVA HLYIMGNEKC SQHHQGKVTL NESELCAGAE KIGSGPCEGD YGGPLICEQH KMRMVLGVIV PGRGCAIPNR PGIFVRVAYY AKWIHKVILT YKL
Characteristics:	Biological activity was determined by the dose-dependent stimulation of the proliferation of mouse IMCD3 cells using a concentration range of 10-20 ng/mL.

Product Details

Purity:	< 95 % by SDS-PAGE gel and HPLC analyses.
Endotoxin Level:	Endotoxin level is less than 0.1 ng per µg of HGF (1 EU/µg).

Target Details

Target:	HGF
Alternative Name:	HGF (HGF Products)
Background:	HGF is a mesenchymally derived potent mitogen for mature parenchymal hepatocyte cells and acts as a growth factor for a broad spectrum of tissues and cell types. HGF signals through a transmembrane tyrosine kinase receptor known as MET. Activities of HGF include induction of cell proliferation, motility, morphogenesis, inhibition of cell growth, and enhancement of neuron survival. HGF is a crucial mitogen for liver regeneration processes, especially after partial hepatectomy and other liver injuries. Human and murine HGF are cross-reactive. Murine HGF is expressed as a linear 728 amino acid polypeptide precursor glycoprotein. Proteolytic processing of this precursor generates the biologically active form of HGF, which consists of two polypeptide chains (α-chain and beta-chain) held by a single disulfide bond resulting in formation of a biologically active heterodimer. The α-chain consists of 463 amino acid residues and four kringle domains. The beta-chain consists of 233 amino acid residues.*Manufactured using (BTI-Tn-5B1-4) cells under license from the Boyce Thompson Institute for Plant Research, Inc.
Gene ID:	15234
NCBI Accession:	NP_001276387
OMIM:	575501559
UniProt:	Q08048
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

Handling

Handling Advice:	As with any protein, exposing HGF recombinant protein to repeated freeze / thaw cycles is not recommended. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature.
Storage:	-20 °C
Storage Comment:	The recombinant protein is stable for at least 2 years from date of receipt at -20 °C. Reconstituted HGF stable for at least 3 months when stored in working aliquots with a carrier protein at -20 °C.
Expiry Date:	24 months