Mouse Hepatocyte Growth Factor protein (Recombinant) (STJP000596)

GENERAL INFORMATION

Product Type	Proteins
Host / Source	CHO Cells

PRODUCT PROPERTIES

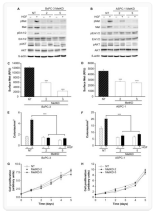
Formulation	Lyophilised from 0.2 Mu m filtered solution in 2.5% glycine, 0.5% sucrose, 0.01% Tween80, 5 mM Glutamic acid, pH 4.5.
Molecular Weight	Native human Hepatocyte Growth Factor is generated by the proteolytic removal of the signal peptide and propeptide, the molecule has a calculated molecular mass of approximately 80kDa. Recombinant HGF is a glycosylated disulfide-linked homodimeric pr
Storage Instruction	Can be stored in working aliquots at 2°C-8°C C for one month, or at-20°C C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles. NA

TARGET INFORMATION

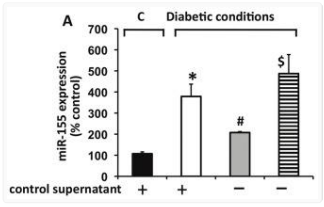
Gene ID	15234
Gene Symbol	Hgf
UniProt ID	HGF_MOUSE
Immunogen Region	Mature chain
Immunogen Sequence	MMWGTKLLPV LLLQHVLLHL LLLHVAIPYA EGQKKRRNTL HEFKKSAKTT 50 LTKEDPLLKI KTKKVNSADE CANRCIRNRG FTFTCKAFVF DKSRKRCYWY 100 PFNSMSSGVK KGFGHEFDLY ENKDYIRNCI IGKGGSYKGT VSITKSGIKC 150 QPWNSMIPHE HSFLPSSYRG KDLQENYCRN PRGEEGGPWC FTSNPEVRYE 200 VCDIPQCSEV ECMT

ADDITIONAL INFORMATION

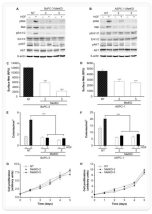
Note	STRICTLY FOR FURTHER RESEARCH USE ONLY (RUO). MUST NOT TO BE USED IN DIAGNOSTIC OR THERAPEUTIC APPLICATIONS.



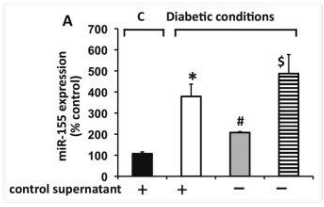
BxPC-3 or ASPC-1 cells infected with recombinant lentivirus expressing Met knockdown shRNAs (2 or 5) or a non targeting shRNA were treated without or with HGF and examined by Western analysis for pMet (Y1234/1235) , Met, pErk1/2, Erk1/2, pAKT, AKT and Beta-actin levels (n=3).



Hepatic. Cells were seeded at a concentration of 5,000 cells/cm2 on tissue culture plastic plates and coverslips coated with Matrigel and cultured in high glucose DMEM supplemented with 1% Penicillin/Streptomycin, 2 mmol/l L-Glutamine and 10% FBS for 3 days. The media were then changed to high glucose DMEM supplemented with 15% FBS, 1% Penicillin/Streptomycin, 2 mmol/l L-Glutamine, 300 μmol/l Monothioglycerol, 20 ng/ml Hepatocyte Growth Factor, 10 ng/ml Oncostatin M, 10–7 Dexamethasone, 100 ng/ml FGF4, and 1X ITS. The cells were allowed to differentiate for 21 days and then fixed and stored in PBS for immunofluorescence. The differentiation media were collected and analyzed for the presence of urea secreted by the differentiated cells. Urea was subsequently measured using the Urea/Ammonia determination kit (R-Biopharm AG, Darmstadt, Germany) according to the manufacturers NA instructions. Cells were subsquently assessed for expression of the hepatocyte markers ALBUMIN and…



Prior to starting the hepatic differentiation, medium NA >MSCs at passage 5 were maintained in the regular medium NA >MSC culture medium until at 80–90% confluence. The hepatic differentiation was elicited in the differentiation-inducing medium, which consisted of MEM supplemented with 10% FBS, 10 ng/mL hepatocyte growth factor (HGF) , 10 ng/mL basic fibroblast growth factor (bFGF) and 10 ng/mL oncostatin M (&system). The medium was changed every 3 days, and the cells were cultured for 8 days.



>Stage 3: Differentiation of Premature Hepatocyte-Like Cells (5–11). At day 5, the medium was replaced by Knockout DMEM supplemented with 1% KSR, 1% nonessential amino acids, 1% l-glutamic acid, 1% dimethyl sulfoxide (DMSO) , and 100 ng/ml hepatocyte growth factor (HGF) to induce premature hepatocyte-like cells. The medium was replaced every two days.