Mouse Hepatocyte Growth Factor protein (Recombinant) (STJP000596)

STJP000596

GENERAL INFORMATION

Product Type Proteins

Short Description Recombinant-Mouse Hepatocyte Growth Factor-protein was developed from cho cells. For use in research applications.

Host/Source CHO cells

PRODUCT PROPERTIES

Concentration

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.

Purification

Dilution Range >97%, as determined by SDS-PAGE and HPLC NA

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

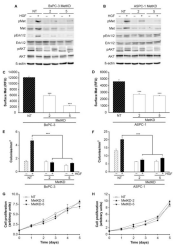
TARGET INFORMATION

Gene ID 15234

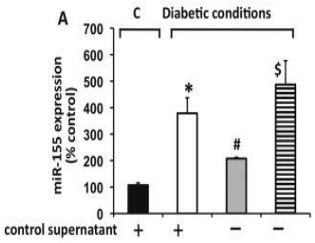
Gene Symbol Hgf

Uniprot ID HGF_MOUSE

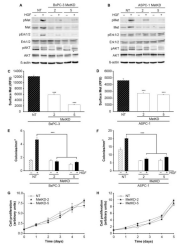
Immunogen Sequence



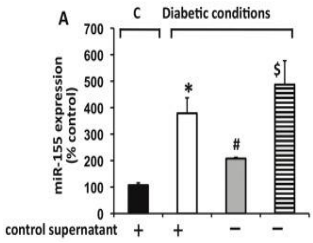
BxPC-3 or ASPC-1 cells infected with recombinant lentivirus expressing Met knockdown shRNAs (2 or 5) or a non targeting shRNA were treated without or with HGF and examined by Western analysis for pMet (Y1234/1235) , Met, pErk1/2, Erk1/2, pAKT, AKT and Beta-actin levels (nâ =â 3).



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, 300Â Âµmol/l Monothioglycerol, 20 ng/ml Hepatocyte Growth Factor, 10 ng/ml Oncostatin M, 10âˆ’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 andâ ;



Prior to starting the hepatic differentiation, medium NA >MSCs at passage 5 were maintained in the regular medium NA >MSC culture medium until at 80â90% confluence. The hepatic differentiation was elicited in the differentiation-inducing medium, which consisted of MEM supplemented with 10% FBS, 10âng/mL hepatocyte growth factor (HGF) , 10âng/mL basic fibroblast growth factor (bFGF) and 10âng/mL oncostatin M (âsystem). The medium was changed every 3 days, and the cells were cultured for 8 days.



>Stage 3: Differentiation of Premature Hepatocyte-Like Cells (5â11). 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.

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