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Product Datasheet

Human FGF1 protein, His and GST tag (active), Unconjugated GTX00081-PRO

Article Name	Human FGF1 protein, His and GST tag (active), Unconjugated
Biozol Catalog Number	GTX00081-PRO
Supplier Catalog Number	GTX00081-pro
Alternative Catalog Number	GTX00081-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Human
Conjugation	Unconjugated
NCBI	2246
UniProt	P05230
Buffer	Batch dependent (please contact us for details)
Expression System	E. coli
Form	Lyophilized powder
Sequence	N-terminal His and GST-Tag, Met1~Asp155 (NP_000791.1)

Application Notes

FGF1 (Fibroblast growth factor 1) is a member of FGF family, which plays an important role in the regulation of cell survival, cell division, angiogenesis, cell differentiation and cell migration. FGF1 is thought to stimulate the proliferation of 3T3 fibroblasts, besides, human FGF1 and mouse FGF1 shares similarities in amino acid sequence with the identity of 96% . Thus, a cell proliferation assay was conducted to detect the bioactivity of recombinant human FGF1 using 3T3 fibroblasts. Briefly, 3T3 cells were seeded into triplicate wells of 96-well plates at a density of 2000 cells/well and allowed to attach overnight, then the medium was replaced with serum-free standard DMEM prior to the addition of various concentrations of FGF1. After incubated for 48h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10 μ l of CCK-8 solution was added to each well of the plate, then the absorbance at 450nm was measured using a microplate reader after incubating the plate for 1-4 hours at 37C. Proliferation of 3T3 cells after incubation with FGF1 for 48h observed by inverted microscope. Cell viability was assessed by CCK-8 (Cell Counting Kit-8) assay after incubation with recombinant FGF1 for 48h. And FGF1 significantly increased cell viability of 3T3 cells.