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Product Datasheet

Human GDF9 protein, His tag, Unconjugated GTX00151-PRO

Article Name	Human GDF9 protein, His tag, Unconjugated
Biozol Catalog Number	GTX00151-PRO
Supplier Catalog Number	GTX00151-pro
Alternative Catalog Number	GTX00151-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Human
Conjugation	Unconjugated
NCBI	2661
UniProt	O60383
Buffer	Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose, ProClin 300.
Expression System	E. coli
Form	Lyophilized powder
Sequence	N-terminal His-Tag, Gly320~Arg454 (NP_001275753.1)

Application Notes

GDF9 (Growth/differentiation factor 9) is an oocyte derived growth factor which belongs to the transforming growth factor-beta (TGFbeta) superfamily. GDF9 is required for ovarian folliculogenesis and promotes primordial follicle development. S100A8 has been identified as an interactor of GDF9 through two-hybrid assay, thus a binding ELISA assay was conducted to detect the interaction of recombinant human GDF9 and recombinant human S100A8. Briefly, GDF9 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 μ l were then transferred to S100A8-coated microtiter wells and incubated for 2h at 37C. Wells were washed with PBST and incubated for 1h with anti-GDF9 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37C. Finally, add 50 μ l stop solution to the wells and read at 450nm immediately. The binding activity of GDF9 and S100A8 was in a dose dependent manner.