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Product Datasheet

Human GDF8 / Myostatin protein, His tag, Unconjugated GTX00183-PRO

Article Name	Human GDF8 / Myostatin protein, His tag, Unconjugated
Biozol Catalog Number	GTX00183-PRO
Supplier Catalog Number	GTX00183-pro
Alternative Catalog Number	GTX00183-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Human
Conjugation	Unconjugated
NCBI	2660
UniProt	O14793
Buffer	Reconstitute with 10mM PBS (pH7.4) to 0.1-1.0mg/ml. Do not vortex. Lyophilized from PBS (pH7.4), no preservatives.
Expression System	E. coli
Form	Lyophilized powder
Sequence	N-terminal His-Tag, Asp267~Ser375 (NP_005250.1)

Application Notes

Myostatin (MSTN) also known as growth differentiation factor 8 (GDF-8) is a member of the TGF beta protein family. Myostatin is a secreted growth differentiation factor that is produced and released by myocytes. This protein negatively regulates skeletal muscle cell proliferation and differentiation. Besides, Bone Morphogenetic Protein 1 (BMP1) has been identified as an interactor of MSTN, thus a binding ELISA assay was conducted to detect the interaction of recombinant human MSTN and recombinant human BMP1. Briefly, MSTN were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to BMP1-coated microtiter wells and incubated for 2h at 37C. Wells were washed with PBST and incubated for 1h with anti-MSTN 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 µl stop solution to the wells and read at 450nm immediately. The binding activity of MSTN and BMP1 was in a dose dependent manner.