

Human GDF8 / Myostatin protein, His tag

Cat. No. GTX00183-pro

Applications Functional Assay**Species** Human**Package**

10 µg

Applications

Application Note

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 37°C. 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 37°C. 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.

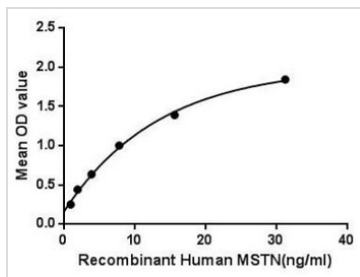
Observed MW (kDa) 14 kDa.

Properties

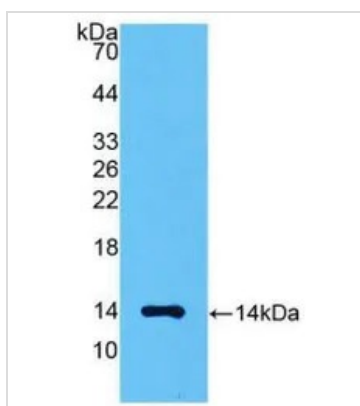
Form Lyophilized powder**Buffer** Reconstitute with 10mM PBS (pH7.4) to 0.1-1.0mg/ml. Do not vortex. Lyophilized from PBS (pH7.4).**Preservative** No preservatives**Storage** For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.**Region/Sequence** N-terminal His-Tag; Asp267~Ser375 (NP_005250.1)**Expression System** E. coli**Purity** > 97%**Endotoxin** < 1 EU/µg**Conjugation** Unconjugated**Note** For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

For full product information, images and publications, please visit our [website](#).

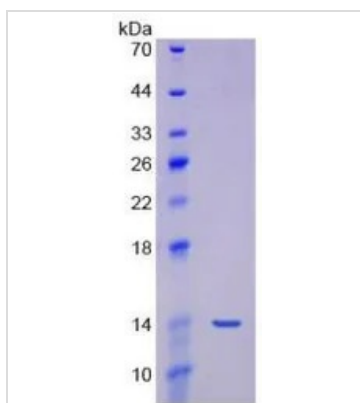
Date 2026 / 10 / 10 Page 1 of 2

DATA IMAGES

GTX00183-pro Functional Assay Image

Functional ELISA analysis of GTX00183-pro Human GDF8 / Myostatin protein which can bind immobilized BMP1 protein.


GTX00183-pro Image

WB analysis of GTX00183-pro Human GDF8 / Myostatin protein.


GTX00183-pro Image

SDS-PAGE analysis of GTX00183-pro Human GDF8 / Myostatin protein.



For full product information, images and publications, please visit our [website](https://www.genetex.com).