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Product Datasheet

Human BMP2 protein, His tag, Unconjugated GTX00203-PRO

Article Name	Human BMP2 protein, His tag, Unconjugated
Biozol Catalog Number	GTX00203-PRO
Supplier Catalog Number	GTX00203-pro
Alternative Catalog Number	GTX00203-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Human
Conjugation	Unconjugated
NCBI	650
UniProt	P12643
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, Leu24~Arg396 (NP_001191.1)

Application Notes

Microfibrillar-associated protein 2 (MFAP2) is an O-glycosylated protein which excreted to the extracellular space and the extracellular matrix. MFAP2 combine biglycan and elastin to form a ternary complex. MFAP2 plays a key role in the support and distensibility of the juxtacanalicular region of these collector channels. It also can inhibit LTB-1 binding to fibrillin-1, stimulate the phosphorylation of Smad2, and thereby mediate the subsequent extracellular deposition of latent TGFbeta. Besides, Fibrillin 1 (FBN1) has been identified as an interactor of MFAP2, thus a binding ELISA assay was conducted to detect the interaction of recombinant human MFAP2 and recombinant human FBN1. Briefly, MFAP2 werediluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to FBN1-coated microtiter wells and incubated for 2h at 37C. Wells were washed with PBST and incubated for 1h with anti-MFAP2 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 MFAP2 and FBN1 was in a dose dependent manner.