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Product Datasheet

Mouse PTHrP protein, His tag, Unconjugated GTX00047-PRO

Article Name	Mouse PTHrP protein, His tag, Unconjugated
Biozol Catalog Number	GTX00047-PRO
Supplier Catalog Number	GTX00047-pro
Alternative Catalog Number	GTX00047-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Mouse
Conjugation	Unconjugated
NCBI	19227
UniProt	P22858
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, Ala37~His175

Application Notes

PTHrP (Parathyroid Hormone Related Protein) is a neuroendocrine peptide which is a critical regulator of cellular and organ growth, development, migration, differentiation and survival and of epithelial calcium ion transport. Regulates endochondral bone development and epithelial-mesenchymal interactions during the formation of the mammary glands and teeth. A binding ELISA assay was conducted to detect the association of PTHrP with PTHR1. Briefly, PTHrP were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl PTHrP were then transferred to PTHR1-coated microtiter wells and incubated for 2h at 37C. Wells were washed with PBST and incubated for 1h with anti-PTHrP 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 PTHrP and PTHR1 was in a dose dependent manner.