

Parathyroid Hormone Related Protein (PTHrP) Active Protein | PTHrP active protein

Active Parathyroid Hormone Related Protein (PTHrP)

CATALOG # AAA148182	HOST E Coli	REACTIVITY Mouse	APPLICATIONS Activity Assay, Cell Culture
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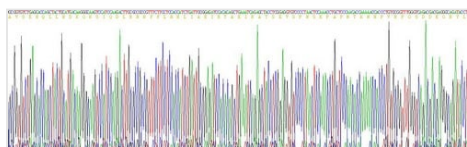
PRODUCT SYNONYMS

Parathyroid Hormone Related Protein (PTHrP); Active Parathyroid Hormone Related Protein (PTHrP); PTHLH; HHM; PTHR; PLP; Osteostatin; Parathyroid Hormone Like Hormone; PTHrP active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Reactivity	Mouse
Purity/Purification	> 95%
Form/Format	Freeze-dried powder
Sequence Length	175
Applicable Applications for PTHrP active protein	Activity Assay, Cell Culture
Tag	N-terminal His Tag
Buffer Formulation	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Fragment	Ala37~His175
Isoelectric Point	10.1

IMAGES



Application Data

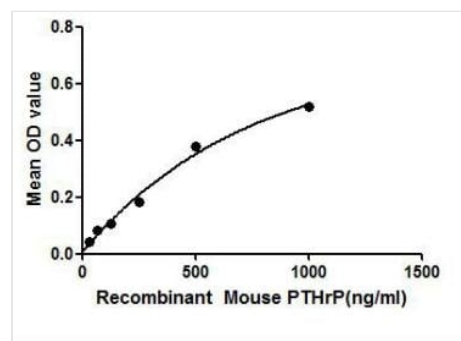
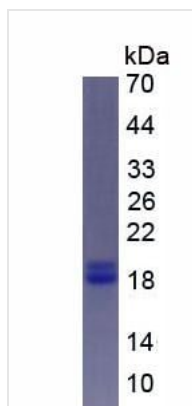


Figure 1. The binding activity of PTHrP with PTHR1.

Application Data



SDS-PAGE

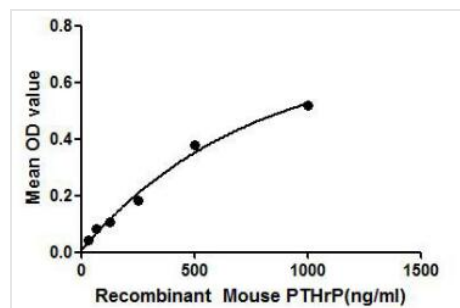


Figure 1. The binding activity of PTHrP with PTHR1.

Activity

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 100uL PTHrP were then transferred to PTHR1-coated microtiter wells and incubated for 2h at 37 degree C. 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 37 degree C. Finally, add 50uL stop solution to the wells and read at 450nm immediately. The binding activity of PTHrP and PTHR1 was shown in Figure 1, and this effect was in a dose dependent manner.

ADDITIONAL INFORMATION

Product Categories/Family for PTHrP active protein

Tumor immunity; Endocrinology; Hormone metabolism; Bone metabolism

NCBI AND UNIPROT INFORMATION

NCBI GI #	131543
NCBI GeneID	19227
UniProt Accession #	P22858
Molecular Weight	Predicted Molecular Weight: 14.7kDa Accurate Molecular Weight: 18; 19kDa
NCBI Official Full Name	Parathyroid hormone-related protein
NCBI Official Synonym Full Names	parathyroid hormone-like peptide
NCBI Official Symbol	Pthlh
NCBI Official Synonym Symbols	PLP; Pthrp; PTH-like
NCBI Protein Information	parathyroid hormone-related protein
UniProt Protein Name	Parathyroid hormone-related protein
UniProt Gene Name	Pthlh
UniProt Synonym Gene Names	Pthrp; PTH-rP; PTHrP; PLP

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-mouse-active-protein/parathyroid-hormone-related-protein-pthrp/148182>