Active Recombinant Mouse Adm protein, His-tagged

Cat. No. Adm-234M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Mouse Adm protein(P97297)(24~171 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Mouse
Source	E.coli
ProteinLength	24-171 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Adrenomedullin (ADM) is a peptide hormone first discovered in 1993 in pheochromocytoma. Although AM is highly expressed in the adrenal glands, heart, lungs, and kidneys, vascular endothelium and smooth muscle are thought to be the main source of plasma AM. It is a 52 aa peptide with several functions, including vasodilation, regulation of hormone secretion, promotion of angiogenesis, and antimicrobial activity. The antimicrobial activity is antibacterial, as the peptide has been shown to kill E. coli and S. aureus at low concentration. Receptor activity-modifying protein 2 can transports the calcitonin gene-related peptide type 1 receptor (CALCRL) to the plasma membrane. Acts as a receptor for adrenomedullin (AM) together with CALCRL. Thus a functional binding ELISA assay was conducted to detect the interaction of recombinant mouse ADM and recombinant human RAMP2. Briefly, ADM was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples

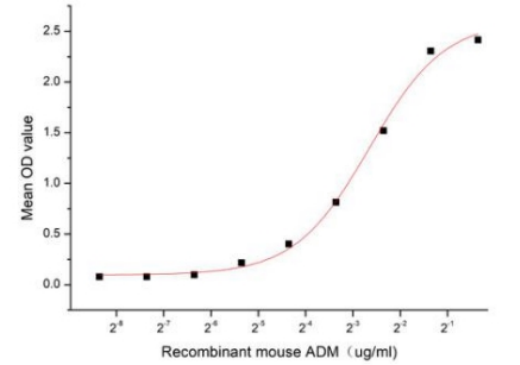
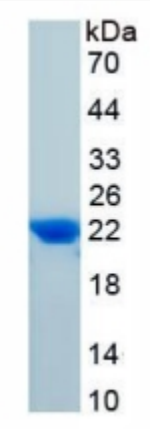
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	of 100 µl were then transferred to RAMP2-coated microtiter wells and incubated for 1h at 37°C. Wells were washed with PBST and incubated for 1h with anti-ADM pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37°C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µ stop solution to the wells and read at 450/630nm immediately. The binding activity of recombinant mouse ADM and recombinant human RAMP2 was shown, the EC50 for this effect is 0.16 ug/mL.
Molecular Mass	18.2kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 90% as determined by SDS-PAGE.
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Adm adrenomedullin [Mus musculus]
Official Symbol	Adm
Synonyms	ADM; adrenomedullin; AM;
Gene ID	11535

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mRNA Refseq	NM_009627
Protein Refseq	NP_033757
Activity	
SDS-PAGE	

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