

## Adrenomedullin (ADM) Active Protein | ADM active protein

Active Adrenomedullin (ADM)

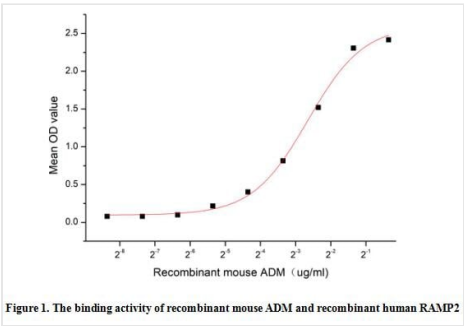
|                               |                       |                                                     |
|-------------------------------|-----------------------|-----------------------------------------------------|
| CATALOG #<br><b>AAA161717</b> | HOST<br><b>E Coli</b> | APPLICATIONS<br><b>Activity Assay, Cell Culture</b> |
|-------------------------------|-----------------------|-----------------------------------------------------|

### PRODUCT SYNONYMS

Adrenomedullin (ADM); Active Adrenomedullin (ADM); Adrenomedullin; AM; PAMP; Proadrenomedullin N-20 terminal peptide; ProAM N-terminal 20 peptide4; ADM active protein

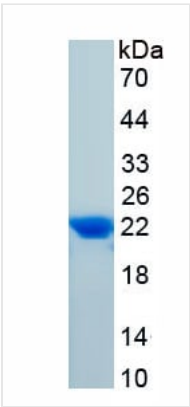
### PRODUCT SPECIFICATIONS

|                                                |                                                                                              |
|------------------------------------------------|----------------------------------------------------------------------------------------------|
| Host                                           | E Coli                                                                                       |
| Purity/Purification                            | Greater than 90% by SDS-PAGE                                                                 |
| Form/Format                                    | Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300. |
| Sequence                                       | Pro24~Ala1 71                                                                                |
| Applicable Applications for ADM active protein | Activity Assay, Cell Culture                                                                 |
| Species                                        | Mouse                                                                                        |
| Expression System                              | Prokaryotic expression                                                                       |
| Tag                                            | N-terminal His Tag                                                                           |
| Endotoxin Level                                | <1.0EU per 1ug (determined by the LAL method)                                                |
| Isoelectric Point                              | 10.1                                                                                         |
| Research Area                                  | Endocrinology, Hormone metabolism                                                            |
| Preparation and Storage                        | Store at 2-8 degree C for one month, -80 degree C for 12 months                              |



Bioactivity

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 of 100 ul were then transferred to RAMP2-coated microtiter wells and incubated for 1h at 37 degree 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 degree C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50 uL stop solution to the wells and read at 450/630nm immediately. The binding activity of recombinant mouse ADM and recombinant human RAMP2 was shown in Figure 1, the EC50 for this effect is 0.16 ug/mL.



SDS-PAGE  
Figure. SDS-PAGE

ADDITIONAL INFORMATION

|                                                  |                 |
|--------------------------------------------------|-----------------|
| Product Categories/Family for ADM active protein | Active proteins |
|--------------------------------------------------|-----------------|

NCBI AND UNIPROT INFORMATION

|                                  |                        |
|----------------------------------|------------------------|
| NCBI GI #                        | 6752988                |
| NCBI GeneID                      | 11535                  |
| NCBI Accession #                 | NP_033757.1            |
| NCBI GenBank Nucleotide #        | NM_009627.1            |
| UniProt Accession #              | P97297; P97453; Q6GTK2 |
| Molecular Weight                 | 20,750 Da              |
| NCBI Official Full Name          | ADM                    |
| NCBI Official Synonym Full Names | adrenomedullin         |
| NCBI Official Symbol             | Adm                    |
| NCBI Official Synonym Symbols    | AM                     |
| NCBI Protein Information         | ADM                    |
| UniProt Protein Name             | ADM                    |
| UniProt Gene Name                | Adm                    |
| UniProt Synonym Gene Names       | AM; PAMP; ProAM-N20    |

**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-active-protein/adrenomedullin-adm/161717>