

Active Recombinant Mouse Ace2 Protein, His-tagged

Cat. No. Ace2-07M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse ACE-2 (18-740 aa), fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Mouse
Source	Insect Cells
ProteinLength	731
Description	Essential counter-regulatory carboxypeptidase of the renin-angiotensin hormone system that is a critical regulator of blood volume, systemic vascular resistance, and thus cardiovascular homeostasis. Converts angiotensin I to angiotensin 1-9, a nine-amino acid peptide with anti-hypertrophic effects in cardiomyocytes, and angiotensin II to angiotensin 1-7, which then acts as a beneficial vasodilator and anti-proliferation agent, counterbalancing the actions of the vasoconstrictor angiotensin II. Also removes the C-terminal residue from three other vasoactive peptides, neurotensin, kinetensin, and des-Arg bradykinin, but is not active on bradykinin. Also cleaves other biological peptides, such as apelin, casomorphins and dynorphin A. By cleavage of angiotensin II, may be an important regulator of heart function. By cleavage of angiotensin II, may also have a protective role in acute lung injury. Plays an important role in amino acid transport by acting as binding partner of amino acid transporter SLC6A19, regulating its trafficking on the cell surface and its activity.

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Form	Liquid
Bio-activity	Specific activity is > 200 pmol/min/μg, and is defined as the amount of enzyme that hydrolysis 1.0 pmole of Mca-YVADAPK(Dnp)-OH per minute at pH 7.5, at 25 centigrade.
Molecular Mass	84.5 kDa
AA Sequence	QSLTEENAKTFLNFFNQEAEDLSYQSSLASWNYNTNITEENAAQKMSEAAAKWSAFY EEQSKTAQSFSLSLQEIQTPIIKRQLQALQQSGSSALSADKNKQLNTILNTMSTIYSTGKV CNPKNPQECLLLEPGLDEIMATSTDYNSRLWAWEGWRAEVGKQLRPLYEEYVVLK NEMARANNYNDYGDYWRGDYEAEGADGYNYNRNQLIEDVERTFAEIKPLYEHLHA YVRRKLMDTYPYSISPTGCLPAHLLGDMWGRFWTNLYPLTVPFAQKPNIDVTDAMM NQGWDAAERIFQEAKEFFVSVGLPHMTQGFWANSMLEPADGRKVVCHPTAWDLG HGDFRIKMCTKVTMDNFLTAHHEMGHIQYDMAYARQPFLLRNGANEGFHEAVGEIM SLAATPKHLKSIGLLPSDFQEDSETEINFLLKQALTIVGTLPFTYMLEKWRWMVFRG EIPKEQWMKKWWEMKREIVGVVEPLPHDETYCDPASLFHVSNDYSFIRYYTRTIYQF QFQEALCQAAKYNGSLHKCDISNSTEAGQKLLKMLSLGNSEPWTKALENVVGARN MDVKPLLNYFQPLFDWLKEQNRNSFVGWNTWSPYADQSIKVRISLKSALGANAYE WTNNEMLFRSSVAYAMRKYFSIIKNQTVPFLEEDVRVSDLKPRVSFYFFVTSPQNV SDVIPRSEVEDAIRMSRGRINDVFGLNDNSLEFLGIHPTLEPPYQPPVT
Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 95% by SDS-PAGE
Applications	SDS-PAGE, Enzyme Activity
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.

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Concentration	1 mg/mL (determined by absorbance at 280nm)
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Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol
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GENE INFORMATION

Gene Name	Ace2 angiotensin I converting enzyme (peptidyl-dipeptidase A) 2 [Mus musculus (house mouse)]
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Official Symbol	Ace2
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Synonyms	Ace2; angiotensin I converting enzyme (peptidyl-dipeptidase A) 2; 2010305L05Rik; angiotensin-converting enzyme 2; ACE-related carboxypeptidase; angiotensin I converting enzyme 2; EC 3.4.17.23
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Gene ID	70008
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mRNA Refseq	NM_027286
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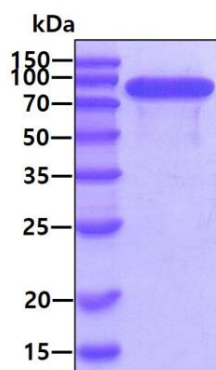
Protein Refseq	NP_081562
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UniProt ID	Q8R0I0
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SDS-PAGE

3 µg by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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