

Active Recombinant Rat Ace2 Protein, His-tagged

Cat. No. Ace2-09R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant rat ACE-2 (18-740aa), fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Rat
Source	Insect Cells
ProteinLength	18-740 a.a.
Description	Enzyme peptidyl-dipeptidase; mouse homolog has a role in regulation of cardiac contractility and regulating Angiotensin 1 and 2 levels
Form	Liquid
Bio-activity	Specific activity is > 150 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	84.7 kDa
Identity	731aa
AA Sequence	QSLIEEKAESFLNKFNQEAEDLSYQSSLASWNYNTNITEENAQKMNEAAAKWSAFY EEQSKIAQNFSLQEIQNATIKRQLKALQQSGSSALSPDKNKQLNTILNTMSTIYSTGK VCNSMNPQECFLLEPGLDEIMATSTDYNNRRLWAWEGWRAEVGKQLRPLYEEYVVL

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KNEMARANNYEDYGDYWRGDYEAEGVEGYNNRNQLIEDVENTFKEIKPLYEQLH
 AYYVRTKLMEVYPSYISPTGCLPAHLLGDMWGRFWTNLYPLTTPFLQKPNIDVTDAMV
 NQSWDAERIFKEAEKFFVSVGLPQMTPGFWTNSMLTEPGDDRKVVCHPTAWDLGH
 GDFRIKMCTKVTMDNFLTAHHEMGHIQYDMAYAKQPFLLRNGANEGFHEAVGEIMS
 LSAATPKHLKSIGLLPSNFQEDNETEINFLKQALTIVGTLPTFTYMLEKWRWMVFQDK
 IPREQWTKKWWEMKREIVGVVEPLPHDETYCDPASLFHVSNDYSFIRYYTRTIYQFQ
 FQEALCQAAKHDGPLHKCDISNSTEAGQKLLNMLSLGNSGPWTLAENVVGSRNM
 DVKPLLNYFQPLFWLKEQNRNSTVGWSTDWSPYADQSIKVRISLKSALGKNAYEW
 TDNEMYLFRSSVAYAMREYFSREKNQTVPFGEADVWVSDLKPRVSFNFFVTSPKN
 VSDIIPRSEVEEAIRMSRGRINDIFGLNDNSLEFLGIYPTLKPPYEPPVT

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.
Concentration	0.5 mg/mL (determined by absorbance at 280nm)
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

GENE INFORMATION

Gene Name	Ace2 angiotensin I converting enzyme 2 [<i>Rattus norvegicus</i> (Norway rat)]
Official Symbol	Ace2
Synonyms	Ace2; angiotensin I converting enzyme 2; angiotensin-converting enzyme 2; ACE-

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related carboxypeptidase; angiotensin I converting enzyme (peptidyl-dipeptidase A) 2;
anigotensin-converting enzyme-related carboxypeptidase; renal angiotensin-
converting enzyme 2; EC 3.4.17.23

Gene ID 302668

mRNA Refseq NM_001012006

Protein Refseq NP_001012006

UniProt ID Q5EGZ1

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