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# Angiotensin I Converting Enzyme 1 Protein (AA 1071-1313) (His tag)



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Quantity:	100 μg
Target:	Angiotensin I Converting Enzyme 1 (ACE)
Protein Characteristics:	AA 1071-1313
Origin:	Rat
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Angiotensin I Converting Enzyme 1 protein is labelled with His tag.

#### **Product Details**

Sequence:	Phe 1071-Ser 1313
Characteristics:	A DNA sequence encoding the Rat ACE protein (P47820) (Phe 1071-Ser 1313) was expressed with N-His tag.
Purity:	> 95 % as determined by reducing SDS-PAGE.

#### **Target Details**

Target:	Angiotensin I Converting Enzyme 1 (ACE)	
Alternative Name:	ACE (ACE Products)	
Background:	Abbreviation: ACE	
	Target Synonym: Angiotensin-converting enzyme,Dipeptidyl carboxypeptidase I,Kininase	
	II,CD143,Dcp1	
	Background: Dipeptidyl carboxypeptidase that removes dipeptides from the C-terminus of a	

#### **Target Details**

variety of circulating hormones, such as angiotensin I, bradykinin or enkephalins, thereby	
playing a key role in the regulation of blood pressure, electrolyte homeostasis or synaptic	
plasticity. Plays a major role in the angiotensin-renin system that regulates blood pressure and	
sodium retention by the kidney by converting angiotensin I to angiotensin II, resulting in an	
increase of the vasoconstrictor activity of angiotensin.	

Molecular Weight:

Calculated MW: 26.62 kDa

Observed MW: 28 kDa

UniProt:

P47820

Pathways:

ACE Inhibitor Pathway, Peptide Hormone Metabolism, Regulation of Systemic Arterial Blood

Pressure by Hormones, Feeding Behaviour, Smooth Muscle Cell Migration

## **Application Details**

Restrictions:

For Research Use only

## Handling

Format:	Lyophilized
Buffer:	Lyophilized from sterile PBS, pH 7.4.  Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.  Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Expiry Date:	12 months