

ACE2 Protein, Mouse (HEK293, His-Fc)

Cat. No.:	HY-P74433
Synonyms:	Angiotensin-converting enzyme 2; ACE-2; ACEH; ACE-related carboxypeptidase
Species:	Mouse
Source:	HEK293
Accession:	Q8R0I0-1 (Q18-T740)
Gene ID:	70008
Molecular Weight:	Approximately 130 kDa

PROPERTIES

AA Sequence					
	QSLTEENAKT	FLNNFNQEAE	DLSYQSSLAS	WNYNTNITEE	
	N A Q K M S E A A A	KWSAFYEEQS	KIAQSFSLQE	IQIPIIKRQL	
	Q A L Q Q S G S S A	LSADKNKQLN	TILNTMSTIY	S T G K V C N P K N	
	PQECLLLEPG	LDEIMATSTD	Y N S R L W A W E G	WRAEVGKQLR	
	PLYEEYVVLK	ΝΕΜΑΚΑΝΝΥΝ	DYGDYWRGDY	EAEGADGYNY	
	NRNQLIEDVE	RTFAEIKPLY	EHLHAYVRRK	LMDTYPSYIS	
	PTGCLPAHLL	GDMWGRFWTN	LYPLTVPFAQ	KPNIDVTDAM	
	MNQGWDAERI	FQEAEKFFVS	VGLPHMTQGF	WANSMLTEPA	
	DGRKVVCHPT	AWDLGHGDFR	ІКМСТКVТМD	NFLTAHHEMG	
	HIQYDMAYAR	QPFLLRNGAN	EGFHEAVGEI	M S L S A A T P K H	
	LKSIGLLPSD	FQEDSETEIN	FLLKQALTIV	GTLPFTYMLE	
	K W R W M V F R G E	ΙΡΚΕQWΜΚΚW	WEMKREIVGV	VEPLPHDETY	
	CDPASLFHVS	NDYSFIRYYT	RTIYQFQFQE	АГСААКХИС	
	SLHKCDISNS	TEAGQKLLKM	LSLGNSEPWT	KALENVVGAR	
	NMDVKPLLNY	FQPLFDWLKE	QNRNSFVGWN	TEWSPYADQS	
	IKVRISLKSA	LGANAYEWTN	NEMFLFRSSV	AYAMRKYFSI	
	IKNQTVPFLE	EDVRVSDLKP	RVSFYFFVTS	PONVSDVIPR	
	SEVEDAIRMS	RGRINDVFGL	NDNSLEFLGI	НРТЬЕРРУОР	
	ΡVΤ			C	
Biological Activity	Measured by its binding a	bility in a functional ELISA. II	mmobilized Mouse ACE2, at 2	2 μg/mL (100 μL/well) can bind	
	Biotinylated SARS-CoV-2 S	61 protein. The ED ₅₀ for this	effect is 149.1 ng/mL, corres	ponding to a specific activity is 670)6.9
	Unit/mg.				
Appearance	Lyophilized powder.				
Formulation	Lyophilized from a 0.2 μm	filtered solution of 20 mM T	ris, 150 mM NaCl, 1 mM ZnCl	₂ , pH 7.5 or PBS, pH 7.4.	
For data sector to sold					
Endotoxin Level	<1 EU/µg, determined by l	LAL method.			
Peconsititution	It is not recommended to	reconstitute to a concentrat	ion less than 100 ug/mL in d	dH-0. For long term storage it is	
Reconstitution	it is not recommended to		ion less than 100 µg/IIIL III u	ungo. For long term storage it is	

	recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

BackgroundACE2, an essential counter-regulatory carboxypeptidase within the renin-angiotensin hormone system, serves as a critical
regulator of blood volume and systemic vascular resistance, contributing to cardiovascular homeostasis. Its enzymatic
activity includes the conversion of angiotensin I to angiotensin 1-9, a peptide with anti-hypertrophic effects in
cardiomyocytes, and angiotensin II to angiotensin 1-7, known for its vasodilatory and anti-proliferative properties, thereby
counteracting the vasoconstrictor actions of angiotensin II. ACE2 further plays a role in amino acid transport, acting as a
binding partner for the amino acid transporter SLC6A19, regulating its cell surface trafficking and activity. Additionally, ACE2
contributes to the regulation of various vasoactive peptides, such as neurotensin, kinetensin, and des-Arg bradykinin, as
well as other biological peptides like apelins, casomorphins, and dynorphin A. Its multifaceted functions position ACE2 as a
pivotal player in cardiovascular and amino acid homeostasis.

Caution: Product has not been fully validated for medical applications. For research use only.

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