Bioactive HuPro®

ACE2 (Human) Recombinant Protein

Catalog # P6663 Size 100 ug

Applications

Result of bioactivity analysis

Result of bioactivity analysis

Specification

Product Description	Human ACE2 (Q9BYF1, 18 a.a.- 740 a.a.) partial recombinant protein with C-terminal His tag expressed in HEK293 cells.
Host	Human
Theoretical MW (kDa)	84.63
Reactivity	Viruses
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Affinity purification
Purity	> 95% by SDS-PAGE
Endotoxin Level	< 0.1 ng/ug (1 EU/ug) as determined by LAL test.
Activity	Immobilized ACE2 (Human) Recombinant Protein (Cat # P6663) at 10 ug/mL (100 uL/well) can bind S1 (SARS-CoV-2) RBD Recombinant Protein. The EC_{50} of S1 (SARS-CoV-2) RBD Recombinant Protein is 62 ng/mL.

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Recommend Usage	Immunogen The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2.
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis Result of bioactivity analysis

Applications

- SDS-PAGE

Gene Info — ACE2

Entrez GeneID	59272
Protein Accession#	Q9BYF1
Gene Name	ACE2
Gene Alias	ACEH, DKFZp434A014
Gene Description	angiotensin I converting enzyme (peptidyl-dipeptidase A) 2
Omim ID	300335
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene belongs to the angiotensin-converting enzyme family of dipeptidyl carboxydipeptidases and has considerable homology to human angiotensin 1 converting enzyme. This secreted protein catalyzes the cleavage of angiotensin I into angiotensin 1-9, and angiotensin II into the vasodilator angiotensin 1-7. The organ- and cell-specific expression of this gene suggests that it may play a role in the regulation of cardiovascular and renal function, as well as fertility. In addition, the encoded protein is a functional receptor for the spike glycoprotein of the human coronaviruses SARS and HCoV-NL63. [provided by RefSeq
Other Designations	ACE-related carboxypeptidase|OTTHUMP00000022963|angiotensin I converting enzyme 2|angiotensin converting enzyme-like protein

Pathway

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- Renin-angiotensin system

Disease

- Arrhythmias
- Atrial Fibrillation
- Cardiomyopathy
- Cardiovascular Diseases
- Coronary Disease
- Death
- Diabetes Mellitus
- Diabetic Nephropathies
- Disease Progression
- Edema
- Genetic Predisposition to Disease
- Hypertension
- Hypertrophy
- Hypotension
- Intracranial Aneurysm
- Malaria
- Metabolic Syndrome X
- Sarcoidosis

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