ARG81679
Mouse ACE ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81679-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81679-002	Standard	2 X 10 ng/vial	4°C
ARG81679-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81679-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81679-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81679-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81679-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81679-008	25X Wash buffer	20 ml	4°C
ARG81679-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81679-010	STOP solution	10 ml (Ready to use)	4°C
ARG81679-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81679 Mouse ACE ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse ACE in serum, plasma (heparin) and cell culture supernatants.
Tested Reactivity	Ms
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	ACE
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	46.9 pg/ml
Sample Type	Serum, plasma (heparin) and cell culture supernatants.
Standard Range	93.8 - 6000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 5.9%; Inter-Assay CV: 6.6%
Alternate Names	DCP1; ICH; ACE; EC 3.2.1.-; MVCD3; Angiotensin-converting enzyme; Dipeptidyl carboxypeptidase I; CD143; CD antigen CD143; EC 3.4.15.1; Kininase II; ACE1; DCP

Application Instructions

Assay Time	~ 5 hours

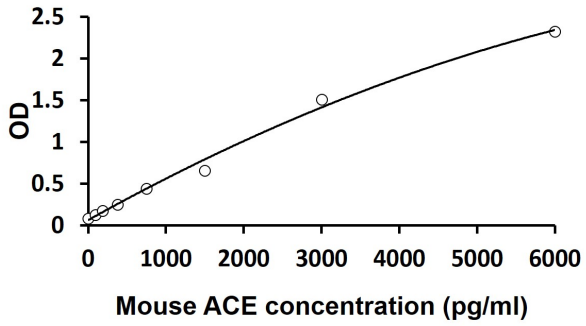
Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	ACE
Gene Full Name	angiotensin I converting enzyme
Background	This gene encodes an enzyme involved in catalyzing the conversion of angiotensin I into a physiologically active peptide angiotensin II. Angiotensin II is a potent vasopressor and aldosterone-stimulating peptide that controls blood pressure and fluid-electrolyte balance. This enzyme plays a key role in the renin-angiotensin system. Many studies have associated the presence or absence of a 287 bp Alu repeat element in this gene with the levels of circulating enzyme or cardiovascular pathophysiologies. Multiple alternatively spliced transcript variants encoding different isoforms have been identified, and two most abundant spliced variants encode the somatic form and the testicular form, respectively, that are equally active. [provided by RefSeq, May 2010]
Function	Converts angiotensin I to angiotensin II by release of the terminal His-Leu, this results in an increase of the vasoconstrictor activity of angiotensin. Also able to inactivate bradykinin, a potent vasodilator. Has also a glycosidase activity which releases GPI-anchored proteins from the membrane by cleaving the mannose linkage in the GPI moiety. [UniProt]
Highlight	Related products: ACE antibodies; ACE ELISA Kits; ACE Duos / Panels; ACE recombinant proteins; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
PTM	Phosphorylated by CK2 on Ser-1299; which allows membrane retention. [UniProt]

Images



ARG81679 Mouse ACE ELISA Kit standard curve image

ARG81679 Mouse ACE ELISA Kit results of a typical standard run with optical density reading at 450 nm.