Angiotensin II ELISA kit

Highly sensitive ELISA, detecting as little as 4.6 pg/ml

The Angiotensin II EIA kit is a colorimetric, competitive immunoassay kit with results in 3.5 hours.

Angiotensins are small peptides derived from angiotensinogen. Several of the known angiotensins are established endocrine effectors in the regulation of blood pressure, but they are also known to have other functions locally, in several organs and tissues (paracrine) and at the cellular level (autocrine / intracrine). Angiotensin I (DRVYIHPFHL) has no known effector function but it is an immediate precursor of Angiotensin II (DRVYIHPF). Angiotensin II binds AT1 receptors, which promote vasoconstriction, sodium retention, release of aldosterone, release of Arg-vasopressin, cell proliferation, inflammation, fibrosis, anxiety, and cardiac hypertrophy. Angiotensin A (ARVYIHPF), and Angiotensin III (RVYIHPF), also bind AT1 receptors. Angiotensin (1-7) (DRVYIHP) binds a different receptor called MAS-1 which has opposite effects (vasodilation, natriuresis, antiproliferation, NO release, PGE release, and apoptosis). Angiotensin IV (VYIHPF) binds yet another receptor called AT4 (IRAP), which promotes increase of blood flow, angiogenesis, and natriuresis, and which has also been implicated in memory formation and in the pathogenesis of Alzheimer's disease. The peptide LVV-hemorphin-7 (LVVYPWTQRF), which is not an angiotensin, also binds the AT4 receptor. There are other angiotensin peptides that have been identified, including Ang (1-9) (DRVYIHPFH), Ang (1-12) (DRVYIHPFHLVI), Ang V(3-7) (VYIHP), as well as several other shorter peptides that have undetermined functions.

Citations: 67 View Online »

Ordering Information

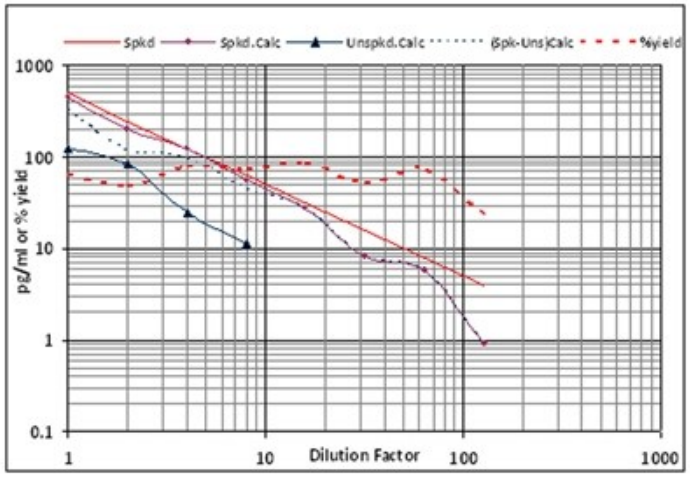
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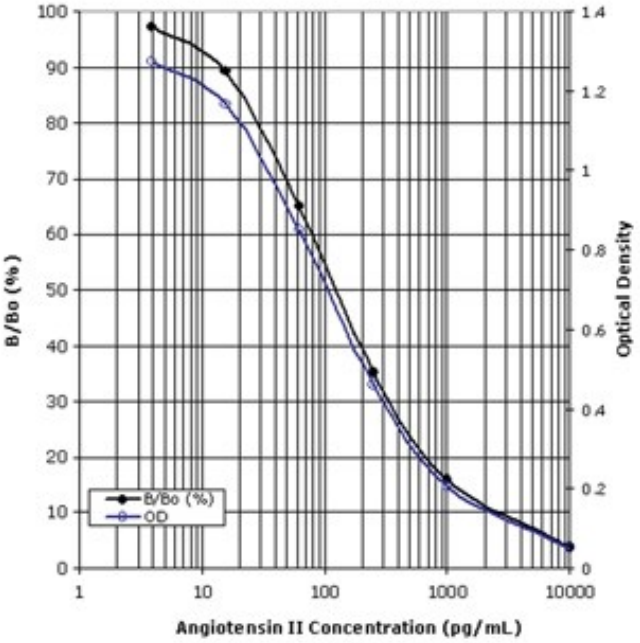
ADI-900-204	96 wells

Manuals, SDS & CofA

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- Highly specific with low cross-reactivity to similar peptides
- Fully quantitative results that surpass semi-quantitative Western blot analysis
- Easy-to-use liquid color-coded reagents reduce errors
- Ready-to-use reagents and pre-coated plates reduce errors and save your time


Spkd
Spkd.Calc
Unspkd.Calc
(Spk-Uns)Calc
%yield
pg/ml or % yield
1000
100
10
1
0.1
1
10
100
1000
Dilution Factor


B/Bo (%)
Optical Density
B/Bo (%)
OD
100
90
80
70
60
50
40
30
20
10
0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1
10
100
1000
10000
Angiotensin II Concentration (pg/mL)

Handling & Storage

Use/Stability	Store all components at +4ºC, except Standard at -20ºC.
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Application	Colorimetric detection, ELISA
Application Notes	For the quantitative determination of species independent Angiotensin II in plasma and serum samples.
Assay Time	3.5 hours
Compatibility	This product is compatible with the **Absorbance 96 Plate Reader**.
Contents	Microtiter Plate, Conjugate, Antibody, Assay Buffer 16, Wash Buffer Concentrate, Standard, TMB Substrate, Stop Solution 2, Streptavidin-HRP
Crossreactivity	Angiotensin II (100%), Angiotensin A (100%), Angiotensin III (100%), Angiotensin IV (100%), Angiotensin I (0.319%), Angiotensin (1-9) (0.103%), LVV-hemorphin 7 (0.067%), Angiotensin (1-7) (0.053%), Bradykinin (0.022%)
Quantity	1 x 96-well plate
Sensitivity	4.6 pg/ml (range 3.9-10,000 pg/ml)
Species Reactivity	Species independent
Technical Info / Product Notes	**Cited samples:** Wildlife Endocrinology: Cited Sample Types
UniProt ID	P01019 (human)
Wavelength	450 nm

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