Arg8-Vasopressin ELISA kit

Highly sensitive ELISA kit for the detection of Arg^8-Vasopressin in serum, plasma and tissue culture media.

The Arg^8-Vasopressin ELISA kit is a colorimetric competitive enzyme immunoassay kit with results overnight + 1 hour. Absorbance is read at 450 nm.

Arginine vasopressin (AVP) is a nonapeptide hormone produced in magnocellular neurons of the hypothalamus, which functions as an antidiuretic in the kidney and systemically as a regulator of vasoconstriction, blood volume, and blood pressure. AVP acts by binding to a set of specific seven transmembrane domain-containing G-protein coupled receptors (GPCR) classified into three groups: V1a (V1), V1b (V3), and V2. V1b receptors stimulate adrenocorticotropic hormone (ACTH) release in the anterior pituitary, but may also participate in corticotropin-releasing hormone (CRH) release by the hypothalamus. The V1b receptor signals through coupling of Gq/11 alpha subunits, activating phospholipase C and release of intracellular Ca^{2+} via phosphoinositide second messengers. V1b receptor overexpression is a common marker for ACTH-secreting corticotropic adenomas. V2 receptors in the collecting ducts of the kidneys stimulate adenylyl cyclase activity, regulating the reabsorption of water via aquaporin channels.

Citations: 88 View Online »

Ordering Information

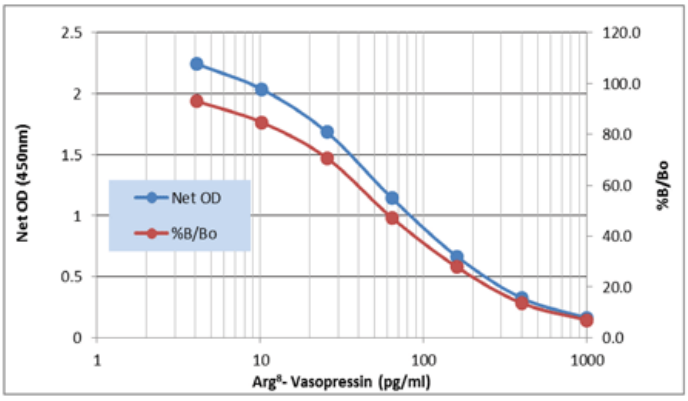
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ADI-900-017A	96 wells

Manuals, SDS & CofA

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- High sensitivity, detecting as little as 2.84 pg/ml
- Highly specific with negligible reactivity with oxytocin
- Simple and easy-to-use liquid color-coded reagents reduces error
- Fully quantitative results that surpass semi-quantitative Western blot analysis


Net OD (450nm)
%B/Bo
Net OD
%B/Bo
Arg8- Vasopressin (pg/ml)
2.5
2
1.5
1
0.5
0
120.0
100.0
80.0
60.0
40.0
20.0
0.0
1
10
100
1000


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Wash Buffer Concentrate
TMB Substrate
Assay Buffer 2B
SA-HRP
Stop Solution 2

Handling & Storage

Use/Stability	Store all components at +4°C, except standard at -20°C.
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	AVP
Application	Colorimetric detection, ELISA
Application Notes	For the quantitative determination of Arg^8-Vasopressin in serum, plasma, and tissue culture media.
Assay Time	Overnight + 1 hour
Compatibility	This product is compatible with the **Absorbance 96 Plate Reader**.
Contents	GxR IgG Microtiter plate, Conjugate, Antibody, Assay buffer, Wash buffer concentrate, Standard, SA-HRP, TMB Substrate, Stop solution
Sensitivity	2.84 pg/ml (range 4.10 – 1,000 pg/ml)
Species Reactivity	Species independent
Technical Info / Product Notes	**Cited samples:** Hormone ELISAs: Cited Samples Wildlife Endocrinology: Cited Sample Types
UniProt ID	P01185 (human)
Wavelength	450 nm

Last modified: May 29, 2024

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